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Friday, Oct. 4, 1912

Time: 11.38

B 18485 short exps.

No	Int.	Class	Remark
1	4	Ir2	
2	7	A0	
3	2	Ir0	
4	8	F0	
5	1	Ir	
6	5	Ir0	
7	7	Ig0	
8	2	Ir0	
9	2	A2	
10	4	A0	
11	4	A3	
12	7	A5	
13	3	Ig0	
14	2	Ig5	
15	3	Ir0	
16	2	Ig0	
17	3	F0	
18	10	A	
19	3	F0	
20	2	A2	
21	3	Ir0	
22	6	Ir0	
23	1	Ir0	
24	10	Ima	
25	2	Ir2	
26	8	F5	
27	2	Ig	A narrow edge on fol. side of 26

1	-65°	50.4	5	48.2	-65	12.2	8.6 ✓
2	-65°	50.7	5	50.3	-65	17.3	7.9 ✓
3	-64°	49.3	5	52.9	-64	41.4	8.9 ✓
4	-64°	49.5	5	53.6	-64	30.2	6.7 ✓
5	-64°	50.3	5	57.7	-64	10.2	8.9 ✓
6	-64°	51.0	5	59.5	-64	18.7	7.9 ✓
7	-64°	51.2	6	1.4	-64	51.3	7.6 ✓
8	-65°	52.8	5	57.5	-65	23.8	8.9 ✓
9	-65°	53.0	5	59.0	-65	23.7	9.0 ✓
10	-65°	53.1	5	59.4	-65	26.9	8.5 ✓
11	-65°	53.6	6	1.8	-65	20.2	8.5 ✓
12	-65°	52.3	5	54.8	-65	54.0	7.8 ✓
13	-65°	52.4	5	54.8	-65	58.6	8.5 ✓
14	-66°	47.6	5	54.7	-66	30.1	9.1 ✓
15	-66°	47.8	5	56.8	-66	18.9	8.9 ✓
16	-66°	48.7	6	0.2	-66	13.3	9.0 ✓
17	-65°	54.6	6	5.0	-65	50.1	8.7 ✓
18	-66°	49.3	6	6.0	-66	1.5	5.7 ✓
19	-66°	54.9	6	5.6	-65	17.4	8.5 ✓
20	-65°	55.3	6	7.5	-65	16.3	8.3 ✓
21	-65°	55.5	6	8.6	-65	3.8	8.8 ✓
22	-65°	55.7	6	9.8	-65	17.1	8.1 ✓
23	-65°	56.0	6	10.6	-65	22.4	9.0 ✓
24	-65°	56.1	6	11.0	-65	33.6	6.7 ✓
25	-65°	56.4	6	11.6	-65	30.8	9.0 ✓
26	-65°	56.5	6	11.9	-65	30.0	7.3 ✓
27	-66°	56.6	6	12.0	-65	30.1	8.5 ✓

cards made out

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Friday, Oct. 4, 1912.
B 18 485 shut ends.

No.	Int	Class	Remark
28	2	K2	
29	5	K5	
30	8	K2	
31	4	A2	
32	8	B9	
33	20	K0	
34	4	G0	
35	8	B9	
36	4	G0	
37	20	K0	
38	1	K	
39	5	K8	
40	2	K5	
41	4	K0	
42	4	K0	
43	8	K0	
44	3	K0	
45	2	K3	
46	5	K5	
47	7	K0	
48	2	K5	
49	4	A5	
50	7	M0	
51	8	K0	
52	10	B5	Spot hung clock.
53	3	K5	
54	2	K5	

28	−6°5	55.8	6	9.8	−6 5	52.6	9.0 ✓
29	−6°6	50.5	6	13.8	−6 6	8.0	8.4 ✓
30	−6°6	50.4	6	13.7	−6 6	38.4	7.7 ✓
31	−6°6	50.9	6	15.8	−6 6	42.5	8.5 ✓
32	−6°6	50.7	6	15.6	−6 6	14.7	7.3 ✓
33	−6°5	57.1	6	13.6	−6 5	29.0	8.8 ✓
34	−6°4	52.5	6	14.3	−6 4	20.0	8.0 ✓
35	−6°3	54.1	6	17.1	−6 3	58.7	8.9 ✓
36	−6°4	52.8	6	17.0	−6 4	33.0	8.2 ✓
37	−6°4	53.0	6	18.2	−6 4	44.1	8.8 ✓
38	−6°5	57.4	6	18.4	−6 5	3.5	9.0 ✓
39	−6°6	51.6	6	19.2	−6 6	0.0	8.4 ✓
40	−6°6	52.3	6	20.3	−6 6	20.4	9.0 ✓
41	−6°6	52.2	6	20.1	−6 6	29.5	8.7 ✓
42	−6°6	52.9	6	22.6	−6 6	14.5	8.7 ✓
43	−6°5	58.8	6	24.0	−6 5	36.2	8.1 ✓
44	−6°5	59.0	6	24.6	−6 5	26.0	9.0 ✓
45	−6°5	59.1	6	24.6	−6 5	42.0	9.2 ✓
46	−6°4	54.7	6	22.3	−6 4	28.6	8.5 ✓
47	−6°3	54.8	6	18.9	−6 3	46.0	7.7 ✓
48	−6°3	55.4	6	20.0	−6 3	52.2	9.1 ✓
49	−6°3	55.5	6	20.8	−6 3	54.8	8.5 ✓
50	−6°3	561 ~~55.4~~	6	22.2 ~~23.5~~	−6 3	36.9 ~~43.0~~	8.4 ~~8.7~~ ✓
51	−6°3	56.8	6	23.6	−6 3	21.1	7.4 ✓
52	−6°3	57.2	6	24.2	−6 3	45.2	6.1 ✓
53	−6 4	56.1	6	25.4	−6 4	15.0	8.6 ✓
54	−6°4	56.2	6	25.6	−6 4	28.4	8.8 ✓

cards made out

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Friday, Oct. 4, 1912.
B18485 short curfs.

No	Int.	Class	Remarks
55	2	Ao	
56	3	Ao	
57	4	Ao	
58	4	A2	
59	1	G	
60	2	Ao	
61	3	K5	
62	4	F2	
63	5	K0	
64	6	F0	
65	6	Ao	
66	3	K2	
67	5	F2	
68	3	K0	
69	1	G	
70	5	Ao	
71	4	F2	Focus poor.
72	4	Ma	
73	8	K0	
74	2	Ao	
75	4	B9	
76	3	F0	
77	7	B9	
78	7	F5	E.
79	9	A	E.
80	1	K	
81	2	A5	Focus poor.

55	−64°	555	6	24.4	−64	50.2	9.1 J
56	−64°	571	6	28.5	−64	9.0	8.4 J
57	−63°	605	6	33.5	−63	49.0	7.9 J
58	−63°	607	6	33.8	−63	9.5	7.5 J
59	−65°	596	6	26.3	−65	42.0	9.1 J
60	−65°	601	6	27.5	−65	37.3	8.9 V
61	−65°	607	6	28.6	−65	33.4	8.8 J
62	−65°	610	6	29.7	−65	28.6	6.8 J
63	−65°	611	6	30.2	−65	56.0	8.2 V
64	−65°	616	6	31.8	−65	13.3	8.0 J
65	−65°	618	6	31.9	−65	16.3	8.0 V
66	−64°	588	6	34.6	−64	54.4	8.9 J
67	−64°	589	6	35.4	−64	46.4	8.2 J
68	−64°	592	6	36.0	−64	35.2	8.7 J
69	−64°	595	6	36.8	−64	56.0	9.1 V
70	−65°	636	6	39.2	−65	9.3	8.1 J
71	−65°	644	6	41.1	−65	20.4	7.9 J
72	−64°	618	6	44.9	−64	54.5	8.4 J
73	−65°	631	6	38.2	−65	58.3	8.0 J
74	−65°	643	6	41.0	−65	51.3	8.8 J
75	−66°	648	6	42.0	−66	36.9	8.2 J
76	−65°	647	6	41.9	−65	58.1	8.7 J
77	−66°	594	6	43.3	−66	22.2	8.1 J
78	−67°	498	5	43.9	−67	11.5	7.9 J
79	−67°	492	5	42.0	−67	27.6	7.0 J
80	−66°	455	5	47.3	−66	44.1	9.3 J
81	−66°	456	5	48.0	−66	42.1	8.9 J

cards made out

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Friday. Oct. 4. 1912.

B1848 short disp.

Ns.	Int.	Class	Remarks
82	4	K0	
83	2	A2	
84	10+	A	
85	6	A0	
86	2	F8	
87	6	A0	
88	2	M?	
89	7	K0	
90	7	P	5 or 6 bright & other bright lines superposed on hazy spect.
91	4	K5	
92	2	G5	
93	2	G0	
94	1	A	
95	2	K5	
96	1	A	
97	2	A0	
98	6	K0	
99	3	K0	
100	2	K0	
101	2	G0	
102	1	G5	
103	1	K0	
104	2	F8	
105	1	K	
106	8	A0	
107	3	K5	
108	7	K0	

82	−66°	457	5	48.4	−66	39.9	8.7 J
83	−66°	461	5	50.0	−66	30.1	8.9 /
84	−66°	463	5	50.0	−66	55.9	5.0 J
85	−67°	516	5	50.5	−67	5.1	8.4 J
86	−67°	513	5	47.1	−67	28.1	8.9 J
87	−67°	509	5	46.5	−67	45.0	7.8 J
88	−67°	515	5	47.8	−67	47.7	9.1 J
89	−68°	431	5	44.2	−68	7.9	8.3 V
	−69°	456	5	39.6	−69	9.8	neb Many other stars ought to be included
90	−68°	414	5	40.8	−68	48.1	9.4 V
91	−68°	418	5	42.0	−68	49.5	8.5 J
92	−68°	420	5	42.8	−68	45.9	8.7 J
93	−68°	428	5	43.9	−68	38.5	8.8 V
94	−68°	440	5	49.4	−68	25.5	9.0 V
95	−68°	442	5	51.3	−68	27.4	9.0 J
96	−68°	447	5	53.1	−68	12.9	9.2 J
97	−68°	449	5	53.7	−68	27.7	9.0 J
98	−68°	456	5	56.2	−68	3.8	8.6 J
99	−67°	530	5	55.8	−67	34.8	9.0 J
100	−67°	532	5	56.4	−67	33.1	9.0 J
101	−67°	531	5	56.2	−67	5.1	8.8 /
102	−67°	535	5	57.7	−67	26.1	9.1 V
103	−67°	541	5	58.7	−67	28.6	9.3 V
104	−67°	544	6	0.1	−67	50.7	8.9 J
105	−67°	546	6	2.2	−67	51.7	9.2 /
106	−67°	549	6	3.4	−67	18.0	7.5 J
107	−67°	555	6	6.7	−67	24.1	9.1 /
108	−67°	557	6	7.1	−67	15.8	8.2 J

Cards made out

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Friday, Oct. 4, 1912.
73 18 485 shot disp.

No.	Int.	Class	Remarks
109	2	F5	
110	2	F	
111	1	F	
112	2	Pec.	Look up.
113	2	F8	
114	3	F2	
115	3	F0	
116	2	F5	
117	3	F5	
118	7	G5	
119	3	A5	
120	4	Mb	
121	2	Ma	
122	2	A3	
123	1	F	Must unless confirmed.
124	2	A0	
125	4	F5	
126	4	A3	
127	3	A2	
128	5	F5	
129	4	F5	
130	2	G0	
131	2	G5	
132	8	K3	
133	4	F8	
134	4	A5	
135	2	M0	

109	-67°	56'1	6'	10.8	-67	26.0	9.1 J
110	-67°	56'7	6'	15.1	-67	56.1	9.2 J
111	-67°	57'2	6'	19.5	-67	32.3	9.2 J
112	-67°	57'3	6'	20.8	-67	53.1	9.5 J
113	-67°	57'8	6'	21.5	-67	31.1	8.8 J
114	-66°	53'1	6'	23.3	-66	56.2	9.1 J
115	-67°	59'4	6'	25.6	-67	25.0	8.8 J
116	-67°	60'1	6'	27.8	-67	18.2	9.2 J
117	-67°	60'9	6'	30.8	-67	30.6	8.9 J
118	-67°	61'1	6'	31.5	-67	29.2	8.4 J
119	-67°	61'0	6'	30.9	-67	1.9	8.9 J
120	-66°	55'8	6'	31.1	-66	46.6	8.8 J
121	-66°	54'8	6'	28.0	-66	40.2	9.2 J
122	-66°	54'4	6'	27.5	-66	35.7	9.1 J
123	-66°	54'1	6'	26.8	-66	0.7	9.1 J
124	-65°	62'1	6'	34.0	-65	59.8	8.9 J
125	-67°	67'8	6'	35.5	-67	7.1	8.8 J
126	-67°	63'4	6'	37.3	-67	31.4	8.6 J
127	-67°	63'0	6'	36.0	-67	40.2	8.8 J
128	-68°	53'4	6'	32.3	-68	1.3	8.2 J
129	-68°	52'6	6'	27.9	-68	11.3	8.5 J
130	-68°	58'0	6'	29.3	-68	2.7	9.2 J
131	-68°	53'1	6'	30.4	-68	19.5	9.4 J
132	-68°	58'2	6'	31.2	-68	51.2	7.8 J
133	-68°	53'6	6'	32.6	-68	35.9	8.9 J
134	-68°	54'0	6'	35.6	-68	37.2	8.6 J
135	-68°	47'8	5'	58.3	-68	59.5	9.0 J

cards made out

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Friday, Oct. 4, 1912.
B 18 485 chat mts.

No.	Int.	Class	Remark
136	2	A2	
137	7	F5	
138	3	F5	
139	7	A3	
140	3	F5	
141	3	A2	
142	4	F8	
143	5	A2	
144	10+	A	
145	3	F0	
146	7	F0	
147	3	F0	
148	7	A2	
149	6	F2	
150	8	F2	
151	9	F5	
152	9	F6	
153	7	F0	
154	10	G5	Burned out
155	2	F0	
156	3	G5	
157	2	M6	
158	2	A2	
159	3	A0	
160	2	G5	
161	2	A2	
162	3	F0	

Time: 12.08

136	−68°	454	5	55.8	−68	40.1	9.2	/
137	−69°	589	5	58.3	−69	29.1	8.0	V
138	−69°	554	5	59.7	−69	51.6	8.8	V
139	−70°	480	6	7.6	−70	0.8	8.2	/
140	−70°	481	6	13.0	−70	6.4	8.8	V
141	−69°	563	6	3.9	−69	25.2	8.9	V
142	−69°	571	6	6.9	−69	26.5	8.6	V
143	−69°	572	6	7.3	−69	14.1	8.4	/
144	−68°	474	6	9.5	−68	49.0	5.1	V
145	−69°	575	6	8.9	−69	39.7	9.0	V
146	−69°	580	6	12.5	−69	43.5	7.4	/
147	−69°	579	6	12.3	−69	13.7	9.2	/
148	−69°	582	6	13.6	−69	12.1	7.8	V
149	−69°	590	6	17.5	−69	1.6	8.0	V
150	−69°	593	6	19.2	−69	6.2	7.8	V
151	−69°	598	6	20.4	−69	43.7	7.2	V
152	−69°	607	6	23.8	−69	55.0	7.6	V
153	−70°	515	6	25.3	−70	6.9	8.0	V
154	−69°	614	6	26.6	−69	37.1	6.9	V
155	−69°	619	6	28.0	−69	12.1	9.2	V
156	−68°	515	6	25.6	−68	43.4	8.8	V
157	−68°	512	6	24.6	−68	31.6	9.2	V
158	−68°	494	6	20.5	−68	22.3	9.2	V
159	−68°	495	6	21.0	−68	37.3	8.8	V
160	−68°	491	6	20.0	−68	46.3	9.0	V
161	−69°	604	6	23.0	−69	12.3	9.2	V
162	−69°	609	6	24.5	−69	22.8	9.2	V

Comets recorded but not identified by me. Oct. 8, 1912 Checked by J. C. M. Nov. 13, 1912

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Friday, Oct. 4, 1912.

Time: 12.09 — B 20540 short disp.

No.	Int.	Class	Remark
~~163~~	5	fγ5	C.
2	3	Fo	
3	2	Ao	
4	2	Fγ5	
5	2	Ao	
6	10+	A	
7	4	Fo	
8	2	fγ5	
9	6	fγ5	
10	5	F5	
11	4	fγ5	
12	2	F5	
13	2	Fγ5	
14	1	Fγ5	
15	3	F8	
16	2	F8	
17	3	F5	
18	3	F8	
19	3	F5	
20	3	fγ5	
21	7	fγ5	
22	2	A5	
23	8	Fo	
24	4	F5	
25	2	Ao	
26	4	Fγo	
27	6	ma	

1	-72°	29.5	4	18.3[2]	-72	18.0	8.4 ✓
2	-71°	27.3	4	34.1	-71	9.1	8.9 ✓
3	-70°	31.2	4	38.2	-70	18.9	8.7 ✓
4	-69°	28.6	4	39.4	-69	46.6	8.9 ✓
5	-71°	27.9	4	41.7	-71	5.6	9.0 ✓
6	-71°	28.2	4	44.3	-71	9.6	5.9 ✓
7	-71°	27.5	4	38.0	-71	56.5	8.4 ✓
8	-72°	31.2	4	37.6	-72	11.6	9.1 ✓
9	-71°	27.8	4	41.5	-71	44.4	7.9 ✓
10	-71°	28.1	4	43.9	-71	43.5	8.1 ✓
11	-71°	28.4	4	48.0	-71	19.5	8.5 ✓
12	-71°	28.6	4	50.0	-71	18.9	9.2 ✓
13	-72°	31.9	4	45.7	-72	21.6	9.0 ✓
14	-72°	32.1	4	47.4	-72	48.1	9.2 ✓
15	-73°	27.5	4	47.3	-73	2.4	8.9 ✓
16	-72°	32.4	4	49.4	-72	39.8	9.0 ✓
17	-72°	32.6	4	52.0	-72	40.0	9.0 ✓
18	-72°	32.9	4	52.9	-72	37.6	9.0 ✓
19	-71°	29.5	4	54.3	-71	46.5	9.0 ✓
20	-70°	33.7	4	57.9	-70	58.3	9.1 ✓
21	-71°	30.1	4	58.2	-71	6.8	8.7 ✓
22	-71°	30.5	5	1.0	-71	2.4	9.2 ✓
23	-70°	35.0	5	2.0	-70	48.0	8.3 ✓
24	-70°	33.9	4	59.2	-70	20.0	9.0 ✓
25	-70°	31.6	4	47.0	-70	22.7	8.5 ✓
26	-70°	31.8	4	49.9	-70	28.1	8.6 ✓
27	-70°	32.1	4	51.6	-70	2.3	8.9 ✓

cards made out.

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Friday, Oct. 4, 1912.
K 20540 short disp.

No.	Int.	Class	Remarks
28	6	Q2	
29	3	Q5	
30	3	F5	Another star faintly superposed?
31	6	Q0	
32	8	Q3	
33	7	Q2	
34	2	F8	
35	7	Q0	
36	5	G0	
37	5	K0	
38	2	G	
39	4	F8	
40	6	F5	
41	5	K2	
42	3	K0	
43	4	Q2	
44	4	Neb	Nr bright lines. Dark H γ suspected.
45	2	F	Spectrum hazy.
Time: 12.18 46	2	Neb.	Nr bright lines.
Oct. 5, 1912 47	2	Neb	cc cc cc
Time 9.50 48	3	~~Neb~~	~~cc cc cc~~
49	5	F0	
50	2	K5	
51	4	Q3	
52	4	Q2	
53	3	Q	Possibly superposed on 54
54	3	Q2	

28	-69°	300	4	53.1	-69	36.3	8.6	J
29	-70°	324	4	53.1	-70	16.1	9.1	J
30	-70°	331	4	56.6	-70	29.1	9.2	(-70° 330 mag. 9.3 superposed.
31	-69°	320	5	1.2	-69	31.6	8.5	J
32	-69°	321	5	2.4	-69	40.1	8.5	J
33	-68°	300	5	0.4	-68	45.7	8.3	J
34	-68°	306	5	3.5	-68	40.9	9.1	✓
35	-68°	311	5	5.5	-68	15.1	8.1	J
36	-68°	315	5	6.4	-68	34.9	8.6	J
37	-69°	327	5	5.5	-69	3.9	8.8	J
38	-69°	328	5	5.6	-69	20.0	9.2	J
39	-69°	329	5	5.8	-69	52.1	8.8	J
40	-69°	336	5	10.4	-69	52.1	8.6	J
41	-69°	340	5	12.4	-69	41.4	8.8	J
42	-69°	337	5	11.3	-69	28.1	9.1	✓
43	-69°	334	5	10.2	-69	18.6	8.7	J
44	-68°	322	5	9.3	-68	54.9	Neb	J
45	-68°	321	5	8.9	-68	37.9	9.0	J
46	-68°	323	5	9.4	-68	55.0	Neb	J
47	-69°	332	5	10.0	-69	0.1	Neb	✓
48	-69°	326	5	14.6	-69	28.2	9.4	J
49	-68°	335	5	14.0	-68	9.7	8.4	✓
50	-68°	338	5	16.0	-68	12.2	9.1	J
51	-68°	340	5	16.7	-68	16.0	8.7	J
52	-68°	341	5	17.2	-68	19.1	8.6	J
53	-68°	344	5	17.6	-68	15.9	9.1	J
54	-68°	345	5	17.9	-68	36.1	8.7	✓

a neb. not on C.P.D.

cards made out

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Saturday Oct 5, 1912

B 20540 Short

No.	Int.	class	Remark
55	7	Ko	
56	4	F5	
57	2	A	Probably A0 Line K superposed on No 56
58	10+	G5	
59	3	Ko	
60	1	Ko	
61	2	F8	
62	2	F5	
63	1	G0	
64	1	F6	
65	1	Ko	
66	6	Ko	Another star superposed at South
67	2	Ko	
68	7	Ko	
69	3	Ko	
70	1	F8	
71	7	Ko	Another star partly superposed at North
72	2	Ko	
73	1	Ko	Faint nebulous appearance.
74	4	Ko	Another star partly superposed.
75	5	F0	
76	7	A2	
77	2	Ko	
78	1	G5	
79	1	F5	
80	1	K	
81	2	F5	

55	-68°	347	5	18.2	-68	43.2	8.4
56	-68°	350	5	18.6	-68	35.5	8.6
57	-68°	348	5	18.6	-68	39.0	8.8
58	-71°	309	5	4.3	-71	29.1	7.9
59	-72°	343	5	4.2	-72	0.9	9.1
60	-72°	340	5	0.8	-72	18.2	9.2
61	-72°	341	5	2.7	-72	38.0	8.8
62	-73°	281	4	54.5	-73	49.5	9.0
63	-73°	282	4	54.8	-73	54.9	9.2
64	-73°	283	4	56.7	-73	43.6	9.1
65	-73°	285	5	2.0	-73	15.4	9.2
66	-72°	344	5	7.1	-72	35.0	8.6 -72° 345 magn. 9.1 Superposed
67	-72°	347	5	7.6	-72	15.9	9.1
68	-72°	352	5	12.3	-72	13.3	8.9
69	-72°	351	5	11.7	-72	29.0	9.0
70	-72°	350	5	10.6	-72	24.5	9.2
71	-71°	315	5	8.8	-71	25.5	8.8 -71° 316 magn. 9.4 Superposed
72	-70°	364	5	7.4	-70	50.6	9.3
73	-70°	366	5	7.5	-70	45.6	9.4
74	-71°	323	5	14.6	-71	12.0	9.1 -71° 382 magn. 9.3 Superposed
75	-70°	377	5	15.9	-70	43.1	8.7
76	-70°	381	5	17.4	-70	35.1	8.5
77	-70°	382	5	18.5	-70	23.2	9.2
78	-70°	379	5	16.8	-70	10.6	9.2
79	-70°	375	5	15.6	-70	53	9.4
80	-70°	378	5	16.2	-70	26.0	9.4
81	-70°	374	5	13.9	-70	31.9	9.2 -70° 373 magn. 9.4 Superposed

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Saturday October 5, 1912

B 20540 Slint

No.	Int.	class	Remark
82	3	K0	
83	6	K2	
84	3	F8	
85	4	K0	
86	3	K5	
87	2	F0	
88	9	A2	
June 10,02 89	2	K5	
June 11.00 90	8	A3	
91	6	A3	
92	2	A	
93	1	K	
94	4	A0	
95	5	B5	
96	5	F0	
97	3	F0	
98	4	F8	
99	7	B9	
100	2	G5	
101	7	F5	
102	2	K0	
103	5	K2	
104	4	K0	
105	4	K0	
106	2	G0	
107	3	A0	
108	3	K5	

82	−71°	325	5	16.1	−71	38.2	9.0
83	−71°	330	5	19.2	−71	39.4	8.7
84	−72.°	357	5	7.9 18.8	−72	13.2	9.0
85	−72°	358	5	17.7	−72	31.7	8.7
86	−72°	363	5	19.7	−72	49.5	8.9
87	−73°	291	5	15.6	−73	30.4	9.0
88	−72°	372	5	25.0	−72	27.0	8.2
89	−72°	369	5	23.2	−72	12.6	9.2
90	−71°	335	5	24.3	−71	37.2	8.4
91	−71°	334	5	22.3	−71	39.0	8.8
92	−72°	364	5	19.9	−72	3.0	9.1
93	−72°	365	5	20.9	−72	6.0	9.2
94	−70°	384	5	21.6	−70	51.4	8.8
95	−71°	333	5	21.8	−71	5.0	9.0
96	−71°	344	5	29.2	−71	18.8	8.9
97	−71°	345	5	29.9	−71	11.5	8.9
98	−70°	398	5	30.0	−70	59.9	8.7
99	−70°	399	5	30.7	−70	55.1	8.3
100	−70	403	5	31.8	−70	55.0	9.1
101	−71°	346	5	32.4	−71	0.5	8.5
102	−71°	353	5	36.3	−71	1.2	9.3
103	−71°	355	5	37.0	−71	12.7	8.5
104	−71°	354	5	36.9	−71	49.2	8.6
105	−71°	356	5	37.3	−71	44.9	8.6
106	−71°	362	5	40.2	−71	42.9	9.3
107	−71°	365	5	40.9	−71	42.0	8.6
108	−72°	39 5/8	5	38.2	−72	58 6/8	9.6 9.1

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Saturday Oct. 5, 1912

B 20540 short.

No.	Sect.	class	Remarks
109	5	K0	
110	3	K2	
111	4	$\frac{1}{2}$0	
112	6	F5	Focus poor!
113	9	K0	"
114	4	A0	Image hazy.
Time 11.07 115	6	neb	B, F, & prolongation to the bright.
" 12.13 116	21		Bv. lines. Map up.
117	4	G0	
118	5	K2	
119	4	F2	
120	5	K0	
121	3	A2	
122	4	K0	
123	5	F0	
124	5	G5	
125	5	A0	
126	1	(Omit)	One higher line superposed on hazy sp. if no lines.
127	3	G0	
128	21		Bv. lines. Hydrogen lines.
Time 12.21 129	X7		" " Superposed on a hazy sp.

~~100~~

cont. 132, 92

109	-73°	321	5	39.2 - 73	3.0	8.9 ✓
110	-72°	403	5	42.3 - 72	31.8	9.1 ✓
111	-72°	405	5	43.2 - 72	19.7	8.7 ✓
112	-72°	414	5	47.3 - 72	42.1	8.3 ✓
113	-72°	418	5	50.3 - 72	44.2	7.6 ✓
114	-69°	349	5	17.9 - 69	43.0	8.9 ✓
115	-69°	355	5	19.0 - 69	20.5	Neb. ✓
116	-69°	361	5	20.3 - 69	46.4	9.4 ✓
117	-69°	373	5	26.7 - 69	42.0	8.9 ✓
118	-70°	393	5	27.9 - 70	9.9	8.8 ✓
119	-69°	384	5	31.2 - 69	52.4	8.7 ✓
120	-70°	401	5	31.2 - 70	4.0	8.8 ✓
121	-70°	411	5	35.9 - 70	34.1	9.2 ✓
122	-70°	412	5	36.1 - 70	14.9	9.1 ✓
123	-70°	421	5	39.0 - 70	29.1	8.6 ✓
124	-70°	422	5	39.2 - 70	1.9	8.6 ✓
125	-69°	396	5	35.7 - 69	32.8	8.2 ✓
126	-69°	391 392 393	5	35.6 7 - 69	51.4 50.6 50.1	10.0 Omit
127	-69°	467	5	40.0 - 69	48.2	8.8 ✓
128	-69°	~~478~~ ~~481~~	5	~~40.8~~ 41.3 - 69	~~42~~ 43.5	9.2 ✓ Wrongly checked; corrected May 20, 1916.
129	-69°	462	5	39.7 - 69	5.9	9.8 ✓

1

Identified by ANC. Oct 8, 1912

Checked by J.B.W. Oct. 28, 1912

Cards made out by M.C.W.

Checked by E.C.P.

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Saturday Oct. 5, 1912

Time 12.25 — B 24561 Short.

No.	Dist.	Class	Remark
1	4	K2	
2	2	K0	
3	1	F5	
4	4	K0	
5	4	A0	
6	4	F8	
7	5	G0	
8	6	F5	
9	6	A0	
10	4	F0	
11	6	F2	
12	2	F2	
13	1	K0	
14	5	F8	
15	2	K5	
16	5	A5	
17	3	K5	
18	2	G5	
19	4	K0	Another star faintly superposed
20	3	K2	
21	3	A	Another star faintly superposed?
22	2	F8	
23	2	G5	
24	1	K	
25	2	G0	
26	1	G	
27	2	A0	

1	−68°	418	5	42.0	−68	49.5	8.5	✓
2	−68°	420	5	42.8	−68	45.9	8.7	✓
3	−68°	428	5	43.9	−68	35.5	8.8	✓
4	−68°	431	5	44.2	−68	7.9	8.3	✓
5	−67°	509	5	46.5	−67	45.0	7.8	✓
6	−67°	496	5	42.9	−67	11.4	7.9	✓
7	−70°	447	5	46.0	−70	13.7	8.6	✓
8	−70°	451	5	49.7	−70	22.7	8.1	✓
9	−70°	462	5	52.9	−70	30.2	8.1	✓
10	−70°	472	5	56.4	−70	31.7	8.2	✓
11	−69°	534	5	52.2	−69	55.6	7.8	✓
12	−69°	529	5	50.6	−69	49.1	8.9	✓
13	−69°	530	5	51.1	−69	42.9	9.0	✓
14	−69°	549	5	58.3	−69	29.1	8.0	✓
15	−69°	554	5	59.7	−69	51.6	8.8	✓
16	−70°	480	6	2.6	−70	0.8	8.2	✓
17	−70°	481	6	3.0	−70	6.4	8.8	✓
18	−70°	475	5	57.9	−70	18.0	9.0	✓
19	−71°	404	6	0.2	−71	19.7	8.8	✓ −71° 406 9.2 superposed
20	−71°	407	6	1.1	−71	11.6	8.8	✓
21	−71°	410	6	3.9	−71	2.2	9.0	✓
22	−71°	380	5	49.2	−71	1.6	8.8	✓
23	−70°	467	5	54.6	−70	51.0	9.0	✓
24	−71°	387	5	52.2	−71	22.9	9.0	✓
25	−71°	377	5	48.8	−71	38.4	8.9	✓
26	−71°	388	5	52.7	−71	53.9	9.2	✓
27	−71°	389	5	53.1	−71	59.7	9.2	✓

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Saturday Oct 5, 1912

B 24561

M.	Int.	class	Remark
28	3	A0	
29	6	G5	
30	6	K0	
31	4	G5	
Time 12.30	32	3	O.2
" 12.40	33	3	K5
	34	3	F5
	35	4	K0
	26	3	K0
	37	2	K2
	38	7	A0
	39	3	F5
	40	4	K5
	41	2	K5
	42	2	K0
	43	3	A0
	44	4	K5 Parallel superposed on 45
	45	8	G0
	46	4	A5
Time 12.44	47	4	A0
	48	5	A0

28	−72°	424	5	54.7	− 72	21.7	8.6
29	−72°	437	5	57.7	− 72	49.4	8.2
30	−73°	344	5	58.0	− 73	9.5	8.5
31	−73°	330	5	46.7	− 73	35.1	8.9
32	−73°	340	5	52.2	− 73	38.6	9.0
33	−73°	345	5	58.6	− 73	38.5	8.9
34	−73°	349	6	0.2	− 73	35.9	8.9
35	−74°	368	6	5.1	− 74	7.2	8.9
36	−75°	362	6	3.0	− 75	9.7	8.7
37	−73°	356	6	12.2	− 73	33.8	9.1
38	−72°	457	6	13.4	− 72	58.7	7.5
39	−72°	459	6	14.9	− 72	46.0	8.7
40	−72°	443	6	4.0	− 72	8.3	8.6
41	−71°	419	6	11.4	− 71	42.6	9.3
42	−72°	458	6	13.5	− 72	7.7	9.2
43	−71°	415	6	10.2	− 71	5.6	8.6
44	−71°	425	6	16.9	− 71	36.5	8.8
45	−71°	426	6	17.1	− 71	39.4	7.4
46	−69°	580	6	12.5	−69	43.5	7.4
47	−69°	582	6	13.6	−69	12.1	7.8
48	−72°	469	6	20.4	− 72	44	8.0

Identified by AMR. Oct 9, 1912
Checked by J.B.W. Nov. 5, 1912
cards made out by M.C.W.
Cards checked by E.S.R.B.

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Saturday October 5, 1912

B8811 Long disp.
For Br stars only.

Nr.	Int.	Class	Remark
1	6	K0	
2	6	F0	
3	3	B	5008, 4959 Hβ, γ, δ, ε Bright. Hγ = 2.0 Hβ
4	5	A0	
5	4	A2	
6	8	F0	
7	7	B5	Helium lines plainly seen.
8	6	A0	
9	8	A0	
10			

1	-67°	401	5	13.8	- 67	19.5	6.3 ↓
2	-68°	375	5	27.6	- 68	43.2	7.7 ↓
3	-69°	456	5	39.6	- 69	9.8	neb ↓
4	-66°	489	5	06.9	- 66	37.8	5.7 ↓
5	-67°	492	5	42.0	- 67	27.6	7.0 ↓
6	-65°	496	5	44.5	- 65	46.9	5.0 ↓
7	-66°	463	5	50.0	- 66	58.9	5.0 ↓
8	-66°	493	6	6.0	- 66	1.5	5.7 ↓
9	-68°	463	6	9.5	- 68	49.0	5.0 ↓

Identified by AMC. Oct. 8, 1912
Checked by J. B. W. Oct. 25, 1912
cards made out by M. C. W.

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Thursday, Oct. 10, 1912.

Time: 11.00

I 38034

No.	Int.	Class	Remarks
1	2	fg	E.
2	2	fg	E.
3	1	Jf	E.
4	2	fg5	E.
5	2	Jf0	E.
6	1	Jf	E.
7	1	Jf	E.
8	7	Jf0	
9	1	fg0	
10	7	fg	
11	2	fg5	
12	1	Jf	
13	5	fg5	
14	2	Jf0	
15	2	Jf0	
16	2	Jf	E.
17	3	fg	
18	2	Jf2	
19	4	fg0	
20	2	fg0	
21	4	Ma	
22	4	Qa0	
23	2	fg	E.
24	1	Jf0	E.
25	1	Jf0	Partly superposed on 23.
26	3	fg	
27	4	fg0	Another star partly superposed.

1	+6°	329	2	1.2	+6	1.6	8.7 ✓
2	+6°	331	2	1.3	+6	19.2	8.5 ✓
3	+6°	330	2	1.3	+6	36.2	8.5 ✓
4	+7°	336	2	1.3	+7	44.1	8.8 ✓
5	+7°	334	2	0.7	+7	47.4	8.5 ✓
6	+9°	272	2	0.7	+9	54.6	9.0 ✓
7	+8°	324	1	58.9	+8	0.2	9.3 ✓
8	+7°	321	1	57.2	+7	2.2	7.0 ✓
9	+7°	320	1	57.1	+7	9.6	8.7 ✓
10	+7°	317	1	56.4	+7	23.6	7.5 ✓
11	+7°	318	1	56.4	+7	57.3	8.7 ✓
12	+8°	320	1	56.5	+8	27.3	9.0 ✓
13	+8°	316	1	54.9	+8	23.5	7.7 ✓
14	+8°	314	1	54.6	+8	56.0	8.5 ✓
15	+10°	278	1	~~55.2~~ 53.4	+10	~~49.7~~ 8.2	9.0 ✓
16	+10°	284	1	57.1	+10	41.4	8.5 ✓
17	+9°	246	1	50.1	+9	35.7	8.8 ✓
18	+8°	302	1	49.1	+8	46.0	8.7 ✓
19	+7°	300	1	48.7	+7	47.1	8.2 ✓
20	+8°	296	1	47.3	+8	4.0	8.7 ✓
21	+8°	292	1	46.7	+8	4.0	7.0 ✓
22	+8°	291	1	46.7	+8	49.8	8.7 ✓
23	+11°	252	1	47.9	+11	6.2	8.8 ✓
24	+11°	250	1	47.7	+11	32.4	8.7 ✓
25	+10°	260	1	47.8	+10	56.2	8.9 ✓
26	+9°	234	1	48.3	+9	43.3	9.0 ✓
27	+9°	223	1	40.9	+9	29.4	8.7 +9°.222 Superposed

mag. 9.1

cards made out

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Thursday Oct. 10, 1912.

I 38 0.34

No.	Int.	Class	Remark
28	1	fg^5	
29	4	Fk	
30	8	A_0	
31	10	fg^5	Burned out.
32	5	$F2$	
33	3	F_0	
34	2	Fk_0	
35	3	F_0	
36	2	A_5	
37	1	Fk	
38	2	g	C. Focus poor.
39	2	fg^5	
40	2	fg_0	
41	3	Fk	
42	4	A_0	
43	5	F_5	
44	2	Fk_2	
45	3	fg_0	
46	3	fg_0	
47	7	F_2	
48	3	Fk_2	
49	1	g	
50	2	Fk_0	
51	1	g	
52	2	fg^5	
53	6	Fk_0	
54	7	fg_0	

28	+8°	280	1	41.6	+8	57.9	9.1	J
29	+8°	279	1	41.5	+8	33.0	8.3	V
30	+7°	275	1	38.1	+7	49.7	7.3	J
31	+8°	273	1	39.7	+8	25.7	4.5	V
32	+8°	269	1	36.6	+8	44.8	8.2	J
33	+8°	267	1	36.3	+8	46.8	8.6	V
34	+8°	266	1	36.1	+8	60.4	8.7	J
35	+10°	225	1	35.1	+10	21.6	8.3	V
36	+10°	235	1	37.3	+10	15.6	8.9	J
37	+10°	234	1	36.9	+10	10.5	9.0	J
38	+10°	230	1	36.3	+10	59.3	8.9	V
39	+10°	221	1	33.2	+10	33.0	8.7	J
40	+9°	201	1	31.8	+9	56.9	8.8	J
41	+9°	203/4	1	33.6	+9	23.0 / 22.7	9.0 / 8.9	J
42	+9°	192	1	29.7	+9	41.6	8.5	V
43	+9°	194	1	30.3	+9	0.9	8.1	J
44	+8°	255	1	29.8	+8	51.0	8.6	V
45	+9°	199	1	30.9	+9	9.1	8.8	J
46	+7°	256	1	32.2	+7	40.1	8.6	V
47	+8°	258	1	33.0	+8	0.9	6.7	J
48	+8°	261	1	33.8	+8	19.8	8.0	V
49	+7°	266	1	34.9	+7	49.6	8.8	J
50	+8°	268	1	36.4	+8	8.5	8.5	J
51	+7°	268	1	36.4	+7	43.8	8.8	J
52	+7°	271	1	37.2	+7	41.3	8.8	J
53	+6°	275	1	41.1	+6	57.7	7.3	J
54	+6°	279	1	42.3	+6	29.9	7.8	V

cards made out

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Thursday. Oct. 10. 1913.

I 38034.

	No.	Int.	Class	Remark
	55	3	K0	
	56	4	G5	
	57	2	Ma	
	58	1	K	
	59	1	G	Partly superposed on 58.
	60	3	F5	
	61	2	K0	
	62	5	A3	
	63	4	K3	
11.12	64	2.1	F?	
11.45	65	1	K0	
	66	2	G5	
	67	1	K	
	68	1	G5	
	69	1	G	
	70	2	K0	
	71	7	F5	
	72	2	F5	
	73	2	K0	
	74	2	K0	
	75	7	F8	
	76	4	Ma	
	77	4	K0	
	78	2	K0	
	79	2	G5	
	80	2	G5	
	81	1	G5	

55	+7°	286	1	42.3	+7	9.7	8.2 J
56	+7°	289	1	43.5	+7	49.9	8.0 J
57	+8°	284	1	43.9	+8	34.3	8.2 J
58	+8°	282	1	43.7	+8	4.1	8.8 J
59	+7°	290	1	43.7	+7	48.0	8.6 J
60	+8°	287	1	44.6	+8	5.9	8.7 J
61	+8°	288	1	45.0	+8	52.1	8.7 J
62	+6°	288	1	44.1	+6	51.5	8.1 J
63	+6°	296	1	46.0	+6	57.6	7.8 J
64	+6°	293	1	45.3	+6	37.6	9.0 J
65	+6°	298	1	46.9	+6	20.4	9.0 J
66	+6°	300	1	47.7	+6	34.1	8.8 J
67	+6°	303	1	49.1	+6	45.6	9.0 J
68	+6°	309	1	51.2	+6	55.9	9.0 J
69	+6°	310	1	51.4	+6	49.7	8.8 J
70	+7°	309	1	53.1	+7	30.7	8.6 J
71	+7°	313	1	54.2	+7	9.9	7.3 J
72	+7°	315	1	55.1	+7	5.2	8.5 J
73	+8°	308	1	53.1	+8	30.1	8.5 J
74	+9°	262	1	56.3	+9	24.5	9.0 J
75	+6°	244	1	38.5	+6	54.1	6.9 J
76	+7°	240	1	39.1	+7	4.5	6.9 J
77	+5°	218	1	29.1	+5	58.1	7.5 J
78	+6°	257	1	32.8	+6	21.2	8.1 J
79	+6°	259	1	33.5	+6	51.4	8.5 J
80	+7°	262	1	34.0	+7	10.1	8.7 J
81	+6°	261	1	34.8	+6	48.6	8.9 J

cards made out

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Thursday, Oct. 10, 1912.
I 38034

No	Int.	Class	Remark
82	2	ly5	
83	3	ly5	
84	10	F0	
85	2	A	E
86	2	ly0	
87	2	ly0	
88	3	K0	
89	2	F0	
90	2	ly0	
91	2	F2	
92	2	F0	
93	4	F0	
94	3	ly5	
95	2	ly5	
96	2	A2	
97	1	F2	
98	2	ly0	
99	1	ly5	
100	1	ly	
101	2	F5	
~~102~~			
102	3	F5	

June 11.53

82	+5°	221	1	32.5	+5	38.7	8.8
83	+5°	226	1	33.8	+5	18.8	8.3
84	+4°	293	1	33.9	+4	45.4	8.0
85	+3°	230	1	34.4	+3	56.4	8.5
86	+4°	298	1	35.6	+4	39.0	8.8
87	+4°	298	1	35.6	+4	35.9 ~~39.0~~	8.8
88	+5°	232	1	36.1	+5	1.2	8.3
89	+6°	264	1	36.8	+6	20.8	9.0
90	+5°	240	1	38.6	+5	48.3	8.7
91	+5°	243	1	39.0	+5	25.5	8.7
92	+4°	316	1	41.9	+4	54.6	8.5
93	+5°	251	1	43.4	+5	17.6	8.5
94	+5°	249	1	43.3	+5	49.0	8.3
95	+5°	252	1	43.9	+5	8.7	8.7
96	+5°	256	1	44.9	+5	30.2	9.0
97	+6°	292	1	45.3	+6	18.1	9.2
98	+5°	272	1	51.8	+5	45.6	8.8
99	+6°	315	1	52.7	+6	53.8	8.9
100	+6°	318	1	54.3	+6	6.1	9.0
101	+4°	343	1	56.2	+4	38.2	8.5

Identified by ANC. Oct 12, 1912
checked by M.C.W. Oct. 22 1912
cards made out by M.C.W.
Checked by [illegible]

✓	102	+6°	327	1	59.5	+6	37	8.5	40 m	✓37403

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Thursday, Oct. 10, 1912.

Time: 12.24

I 38035

No	Set	Class	Remarks
1	2	Gf5	
2	1	Gf5	
3	1	Gf5	
4	1	Gf	
5	2	F0	
6	2	Jf2	
7	2	Jf0	
8	3	Gf0	
9	1	Gf5	
10	2	F5	
11	3	A2	
12	3	Gf0	
13	1	F8	
14	1	Jf0	
15	6	Jf5	
16	2	Jf5	
17	3	F8	
18	3	Gf0	
19	2	A	
20	2	F5	
21	1	Gf5	
22	1	Jf	
23	2	Jf0	
24	3	F5	
25	1	A0	
25a	1	F5	superposed on 26 + 27. Looked up on 35079 sheet
26	1	Gf5	
27	1	Gf5	Partly superposed on 26. Looked up on 35079

1	+13°	32.5	1	56.1	+13	29.0	8.5	J
2	+13°	32.6	1	56.5	+13	52.9	8.8	J
3	+13°	32.9	1	57.9	+13	51.5	8.6	J
4	+13°	33.1	1	58.6	+13	24.2	9.1	J
5	+14°	34.8	2	2.1	+14	9.8	9.0	J
6	+14°	35.0	2	2.4	+14	19.6	8.3	J
7	+14°	35.2	2	2.6	+14	28.2	8.4	J
8	+14°	34.9	2	2.2	+14	47.5	8.5	J
9	+15°	30.9	2	2.2	+15	20.1	9.0	J
10	+15°	31.1	2	3.0	+15	41.6	9.3	J
11	+15°	31.3	2	3.4	+15	16.2	8.6	J
12	+16°	25.2	2	4.6	+16	1.2	8.3	J
13	+16°	25.5	2	5.7	+16	14.1	8.9	V
14	+15°	31.7	2	5.2	+15	24.3	9.1	J
15	+14°	35.7	2	5.2	+14	35.1	6.0	V
16	+15°	32.1	2	7.6	+15	30.8	8.0	J
17	+15°	32.2	2	8.0	+15	8.9	8.1	J
18	+16°	26.6	2	9.1	+16	37.8	8.5	J
19	+17°	23.7	2	9.3	+17	7.1	8.8	J
20	+16°	27.1	2	11.2	+16	57.6	8.8	J
21	+16°	27.7	2	12.2	+16	57.4	9.0	J
22	+15°	32.7	2	12.0	+15	34.5	8.9	J
23	+15°	32.9	2	13.9	+15	30.1	8.0	J
24	+15°	33.1	2	14.0	+15	19.9	8.1	J
25	+14°	33.3	2	13.9	+14	51.6	7.6	J
25a	+14°	38.8	2	15.3	+14	41.0	8.7	J
26	+14°	38.7	2	15.0	+14	44.6	9.0	J
27	+14	38.9	2	15.4	+14	44.7	8.8	J

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Thursday Oct. 10, 1912.

I 38035

	Hr	Int.	Class	Remark
	28	6	F0	
	29	2	F8	
	30	3	G5	
	31	2	G0	
	32	2	F5	E.
	33	6	F0	
	34	1	G	E.
	35	2	K0	E.
	36	3	G0	
	37	3	K0	
	38	3	G5	
	39	2	G5	
	40	2	G	
	41	2	K0	
	42	1	G	
	43	2	F8	
	44	1	G	
	45	2	A	
	46	2	G	Poor focus.
12.33	47	1	K0	
2.60	48	2	K0	
	49	2	G0	
	50	2	F5	
	51	1	K0	E
	52	1	G	
	53	2	G5	
	54	1	G5	

28	+14°	392	2	16.5	+14	51.6	7.3
29	+15°	335	2	16.6	+15	1.2	8.5
30	+16°	284	2	15.5	+16	3.9	8.3
31	+16°	291	2	18.7	+16	56.7	8.3
32	+16°	294	2	20.4	+16	42.9	8.5
33	+16°	293	2	19.6	+16	0.3	6.8
34	+17°	368	2	20.0	+17	25.3	8.9
35	+18°	318	2	22.5	+18	1.6	8.1
36	+18°	305	2	18.2	+18	14.8	8.0
37	+18°	303	2	17.6	+18	53.9	8.0
38	+19°	355	2	17.7	+19	38.3	8.0
39	+18°	298	2	15.4	+18	58.2	8.4
40	+18°	297	2	14.6	+18	24.8	8.9
41	+17°	353	2	14.6	+17	44.4	8.5
42	+17°	346	2	13.1	+17	54.8	8.8
43	+17°	332	2	7.4	+17	14.3	8.8
44	+18°	287	2	7.3	+18	9.9	8.8
45	+18°	284	2	6.7	+18	23.9	8.5
46	+18°	265	2	57.1	+18	36.2	8.9
47	+18°	263	1	55.0	+18	21.7	8.8
48	+13°	352	2	5.2	+13	33.2	8.6
49	+13°	354	2	5.6	+13	50.7	8.9
50	+13°	345	2	3.3	+13	53.4	9.2
51	+12°	280	1	57.9	+12	22.5	8.8
52	+14°	378	2	11.5	+14	13.3	8.7
53	+18°	292	2	12.8	+18	11.8	9.0
54	+19°	346	2	12.5	+19	27.3	8.5

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Thursday Oct 10, 1912

I 38035

	M	Int	Class	Remarks
June 7.5	55	1	Ko	
	56	3	Ha	
57	4		As	

	55	+19°	351	2	14.0	+19	49.3	87	

Identified by AMC. Oct. 16, 1912
checked by M.C.W. Oct. 22 1912.
cards made out by M.C.W.

/	56	+16°	237	1	57.8	+16	57	8.5	58 m I 37468
✓	57	+18	328	L	1.7	+18	39	1.5	83 m I 38883

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Friday, Oct. 11, 1952
I 38036

Time: 10.17

No.	Int.	Class	Remark
1	2	F	E.
2	3	K0	
3	1	K0	
4	2	G	
5	2	F5	
6	2	G	
7	1	G5	
8	2	G0	
9	1	F0	
10	1	K0	
11	2	A3	
12	2	G5	
13	3	K0	
14	2	K0	
15	4	A2	
16	5	K2	E.
17	2	F5	
18	2	F5	
19	2	A2	E.
20	2	K0	E.
21	1	K	E.
22	2	G5	
23	2	G5	
24	1	F	
25	1	K	
26	3	K0	
27	3	A	E

1	+13°	490	2	52.3	+13	56.0	8.8	J
2	+13°	494	2	55.5	+13	53.9	8.0	J
3	+14°	509	2	57.1	+14	0.6	9.0	J
4	+13°	499	2	57.4	+13	41.7	9.0	J
5	+13°	501	2	57.8	+13	42.1	8.5	J
6	+13°	503	2	57.9	+13	8.1	8.6	J
7	+14°	516	2	59.7	+14	5.6	8.7	J
8	+14°	511	2	58.6	+14	12.0	8.6	J
9	+13°	513	3 2	1.1	+13	36.7	8.8	J
10	+15°	438	3	1.8	+15	6.7	8.6	J
11	+16°	395	3	1.5	+16	20.7	8.4	J
12	+17°	505	3	1.9	+17	47.5	8.5	J
13	+19°	471	3	1.5	+19	27.6	8.0	J
14	+18°	410	2 3	58.9	+18	48.2	8.5	J
15	+20°	501	2	57.2	+20	19.8	7.5	J
16	+20°	514	3	1.0	+20	12.4	6.9	J
17	+18°	391	2	53.0	+18	49.6	8.0	J
18	+16°	380	2 3	54.8	+16	58.9	8.8	J
19	+17°	465	2	50.6	+17	44.2	9.1	J
20	+18°	383	2	52.7	+18	59.9	8.5	J
21	+19°	449	2	54.9	+19	46.3	8.3	J
22	+18°	430	3	4.3	+18	23.2	8.5	J
23	+17°	514	3	5.9	+17	45.8	8.5	J
24	+17°	517	3	6.6	+17	29.6	8.8	J
25	+18°	~~506~~ 439	3	~~1.2~~ 7.1	+18	~~1.2~~ 1.2	8.8	J
26	+18°	444	3	8.1	+18	48.5	8.0	J
27	+20°	530	3	7.6	+20	9.6	8.0	J

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Friday, Oct 11, 1912.
I 38036

No.	Int.	Class	Remark
28	10+	A	E.
29	2	A2	
30	4	A2	Partly superposed on 31.
31	2	K0	
32	3	F5	Another star superposed?
33	4 3	A0	
34	b	A0	
35	2	G0	
36	2	G5	
37	5	G0	
38	2	K5	
39	4	F0	
40	4	K5	
41	2	F	E. Focus very poor.
42	8	A0	
43	3	G5	
44	2	F0	Another star partly superposed.
45	3	F5	
46	2	K0	
47	1	K0	
48	1	G	
49	2	F2	
50	3	A2	
51	3	A2	
52	2	A0	
53	4	A2	
54	3	F2	

28	+20°	527	3	6.6	+20	30.5	4.5 J
29	+19°	507	3	11.5	+19	43.4	8.3 J
30	+19°	509	3	12.1	+19	11.2	8.0 ✓
31	+19°	510	3	12.1	+19	20.1	7.5 J
32	+18°	465	3	12.7	+18	57.1	8.2 J
33	+18°	461	3	12.3	+18	39.5	8.0 J
34	+18°	459	3	11.5	+18	32.5	7.3 J
35	+19°	505	3	11.2	+19	11.4	8.3 J
36	+17°	529	3	10.5	+17	55.8	8.5 J
37	+17°	527	3	10.1	+17	37.4	7.5 J
38	+17°	525	3	9.0	+17	1.8	7.8 J
39	+16°	423	3	11.8	+16	57.9	7.9 J
40	+19°	523	3	15.7	+19	22.7	7.5 J
41	+19°	530	3	17.7	+19	44.1	8.1 J
42	+18°	484	3	18.8	+18	14.9	6.5 J
43	+17°	545	3	16.0	+17	2.0	8.2 J
44	+17°	550	3	17.2	+17	13.4	8.3 J
45	+16°	436	3	15.7	+16	11.0	8.5 J
46	+16°	433	3	15.2	+16	2.2	8.5 J
47	+16°	432	3	14.9	+16	3.3	8.6 J
48	+15°	474	3	14.8	+15	50.2	9.0 J
49	+15°	481	3	17.3	+15	18.0	8.0 J
50	+14°	559	3	16.7	+14	28.4	8.3 J
51	+13°	545	3	17.4	+13	34.3	8.0 ✓
52	+13°	550	3	18.4	+13	47.8	8.5 J
53	+16°	443	3	19.5	+16	8.7	8.3 J
54	+16°	444	3	20.0	+16	39.0	8.5 J

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Friday, Oct. 11 1912.

I 38036

	No.	Int.	Class	Remark
	55	8	A0p	P line 4128-31 only line seen except hydrogen.
	56	2	F0	
	57	4	F2	
	58	1	K	Partly superposed on 57.
	59	2	F8	
	60	5	F5	
	61	4	A0	
	62	4	A0	E.
10.32	63	2	G5	
	64			
	64	5	A0	
	65	3	A3	

55	+16°	450	3	21.5	+16	15.1	7.5
56	+15°	493	3	21.2	+15	42.0	8.0
57	+17°	564	3	23.1	+17	26.8	6.5
58	+17°	565	3	23.2	+17	18.2	8.5
59	+16°	454	3	23.9	+16	13.4	8.3
60	+16°	458	3	24.8	+16	6.5	7.3
61	+18°	494	3	23.5	+18	18.3	8.3
62	+18°	503	3	24.8	+18	53.4	8.2
63	+13°	526	3	6.1	+13	21.8	8.8

Identified by Anne. Oct 16, 1912
checked by Mr. C. W. Oct. 24, 1912.
cards made out by Mr C.W.
Cards checked by E.R.B.

64	+14°	565	3	20.9	+14	29.4	7.3

checked by A.J.C.

65	+16	402	3	4.1	+16	85	8.5	75 on 1937/2

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Friday, Oct. 11, 1912.

Time: 10.55

I 37373

No.	Int.	Class	Remark
1	6	A2	
2	1	Ly	E.
3	1	F8	E.
4	2	A0	
5	2	F5	
6	1	A2	E.
7	1	K	
8	2	K0	
9	6	K0	
10	3	K2	
11	2	A3	
12	2	A2	
13	1	K	
14	1	A5	
15	4	Go	
16	1	By	
17	1	Ly	
18	2	A2	
Time: 11.01 19	1	A	Superposed on a brighter star. S.P. the brighter star.

1	+18°	484	3	18.8 +18	14.9	6.5 ✓
2	+19°	547	3	22.1 +19	35.6	8.0 ✓
3	+19°	549	3	22.9 +19	15.5	8.0 ✓
4	+19°	554	3	26.1 +19	17.9	8.2 ✓
5	+19°	562	3	28.0 +19	34.8	7.0 ✓
6	+19°	561	3	28.0 +19	45	8.0 ✓
7	+18°	507	3	27.0 +18	25.7	7.0 ✓
8	+17°	573	3	25.6 +17	45.4	8.3 ✓
9	+17°	575	3	25.9 +17	21.6	7.0 ✓
10	+17°	564	3	23.1 +17	26.8	6.5 ✓
11	+17°	584	3	28.0 +17	20.2	8.3 ✓
12	+17°	587	3	28.8 +17	52.4	8.0 ✓
13	+17°	601	3	31.2 +17	55.4	8.3 ✓
14	+17°	595	3	30.2 +17	7.5	8.3 ✓
15	+16°	507	3	27.9 +15	59.6	7.9 ✓
16	+15°	505	3	26.7 +15	37.8	8.6 ✓
17	+15°	499	3	24.8 +15	2.2	8.3 ✓
18	+12°	493	3	28.7 +12	48.9	8.7 ✓
19	+13°	578	3	31.2 +13	14.7	8.8 ✓

Identified by AMC Oct. 11, 1912
checked by M. C. W. Oct. 26 1912
cards made out by M. C. W.
Cards checked by E.R.B.

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Monday Oct. 14 1912.

Time 11.07

B 42911 short disp

No	Int.	Class	Remark
1	2	Fo	
2	2	F0	
3	1	F0	
4	2	G0	
5	2	G5	
6	2	F8	
7	1	G5	
8	1	F0	
9	2	F5	
10	3	A	
11	2	G5	
12	1	F8	
13	1	G	
14	2	G0	
15	3	F2	
16	3	F5	
17	6	A0	
18	3	F0	
19	4	F0	
20	3	F0	
21	4	F0	
22	1	F0	
23	3	F2	
24	1	F	
25	4	F5	
26	2	F0	
27	2	F5	

1	-41°	1000	3	21.2	-41	13.3	9.0 J
2	-41°	1006	3	22.0	-41	0.1	8.3 J
3	-41°	1005	3	21.7	-41	19.9	8.9 J
4	-41°	1007	3	22.9	-41	39.2	9.0 J
5	-41°	1014	3	23.7	-41	27.8	9.0 J
6	-41°	1016	3	24.0	-41	38.8	9.1 J
7	-41°	1009	3	23.0	-41	37.6	8.9 J
8	-40°	967	3	27.4	-40	48.4	9.0 J
9	-41°	1048	3	28.3	-41	22.1	9.0 J
10	-39°	1084	3	30.0	-39	49.6	8.7 J
11	-38°	1188	3	29.2	-38	27.2	8.1 J
12	-37°	1347	3	28.7	-37	32.0	8.6 J
13	-37°	1353	3	29.9	-37	38.6	9.0 J
14	-36°	1335	3	26.9	-36	7.6	8.7 J
15	-36°	1353	3	30.3	-36	21.1	7.3 J
16	-36°	1356	3	30.8	-36	16.9	8.7 J
17	-36°	1367	3	32.3	-36	42.4	7.1 J
18	-37°	1378	3	33.7	-37	2.3	8.0 J
19	-36°	1388	3	34.8	-36	20.8	8.3 J
20	-36°	1380	3	34.2	-36	2.8	8.0 J
21	-35°	1311	3	33.9	-35	36.3	7.2 J
22	-35°	1298	3	31.6	-35	12.2	8.5 J
23	-35°	1303	3	32.5	-35	8.6	8.0 J
24	-35°	1309	3	33.5	-35	14.2	8.7 J
25	-34°	1355	3	35.2	-34	56.6	7.5 J
26	-35°	1342	3	36.4	-35	18.3	8.5 J
29	-35°	1344	3	36.5	-35	50.1	8.9 J

Cards made out

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Monday, Oct. 14, 1912.

B 4291 short diffs.

No	Int.	Class	Remark
28	2	H0	
29	2	H2	
30	2	H0	
31	3	H0	
32	6	K0	
33	6	K2	E.
34	2	K2	E.
Time: 11-17 35	4	A2	E.
36			
37			

36	3	H0	
37	3	H5	
38	3	K0	
39	1	B5	

28	-34°	1288	3	24.3	-34	47.3	8.6	↓
29	-34.5°	1205 3	3	25.2	-36	10.8	7.4	↓
30	-35°	1270	3	27.5	-35	23.7	8.0	↓
31	-35°	1279	3	29.1	-35	13.4	8.6	↓
32	-35°	1284	3	29.7	-35	14.8	6.8	↓
33	-34°	1332	3	32.0	-34	11.6	6.8	↓
34	-34°	1336	3	32.4	-34	16.6	7.9	↓
35	-34°	1338	3	32.7	-34	21.7	8.5	↓

Identified by J. B. M. Nov. 13, 1912.
Checked by AMC. Nov. 26, 1912
cards made out by me C.W.
Cards checked by E.B.B.

✓ 36	-38°	1168	3	26.3	-38	1	8.6	116	m B 4094.7
✓ 37	-36	1215	3	24.1	-36	20	9.0	113	" "
✓ 38	-41	1075	3	32.6	-41	18	8.3	51	" B 4616
✓ 39	-38	1211	3	32.4	-38	42	9.0	54	" "

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Monday, Oct. 14, 1918.

Line: 11.18

By 2848 (for brighter star)

No.	Int.	Class	Remarks
1	8	B3	
2	5	A2	
3	2	F0	
4	3	F5	
5	2	F5	
6	6	F5	
7	2	A3	
8	2	F0	
9	3	A2	
10	7	A0	
11	9	B5	
12	6	B9	
13	3	A3	
Line: 11.21 14	2	F	
15			
16			

1	-32°	1430	3	37.3	-32	20.2	4.9 ↓
2	-29°	1413	3	41.4	-29	43.8	5.7 ↓
3	-29°	1425	3	42.3	-29	51.2	7.3 ↓
4	-30°	1494	3	42.3	-30	16.4	6.9 ↓
5	-30°	1493	3	42.0	-30	26.4	7.6 ↓
6	-30°	1497	3	42.9	-30	33.4	5.6 ↓
7	-32°	1479	3	43.6	-32	9.9	8.3 ↓
8	-31°	1563	3	45.6	-31	4.3	7.1 ↓
9	-32°	1535	3	51.6	-32	3.1	7.9 ↓
10	-30°	1597	3	55.7	-30	50.7	5.9 ↓
11	-35°	1455	3	48.9	-35	6.2	5.3 ↓
12	-36°	1453	3	43.1	-36	29.4	6.7 ↓
13	-28°	1326	3	49.1	-28	2.0	7.1 ↓
14	-30°	1636	3	59.9	-30	33.8	7.5

Identified by J. C. M. Nov. 13, 1912
Checked by A.M.C. Nov. 26, 1912
cards made out by M. C. W.
Cards checked by E.K.B.

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Monday Oct. 14, 1912.

Time: 11.25

B42 907 abs & disp.

No.	Int.	Class	Remarks
1	3	A	
2	3	A	
3	5	F0	
4	3	F6	
5	1	F0	
6	2	F0	
7	5	F6	
8	9	B9	
9	6	A0	
10	2	F0	
11	1	[illegible]	
12	2	[illegible]	
13	2	F8	
14	2	[illegible]	
15	7	F0	
16	3	F5	
17	5	[illegible]	
18	2	F8	
19	6	F0	
20	6	[illegible]	
21	4	F0	
22	1	F2	
23	1	F	
24	1	[illegible]	
25	4	F0	
Time: 11.31 26	2	F8	
27	2	K2	
~~28~~			

1	-34°	1248	3	5.3	-34	35.0	8.5	↓	
2	-33°	1122	3	6.8	-33	15.2	8.5	↓	
3	-32°	1194	3	7.4	-32	52.8	7.0	↓	
4	-33°	1132	3	8.8	-33	18.2	7.7	↓	
5	-32°	1185	3	6.0	-32	33.9	8.1	↓	
6	-32°	1192	3	7.2	-32	10.6	8.5	↓	
7	-31°	1282	3	7.5	-31	35.8	7.0	↓	
8	-31° +17	1303 126	3 0	11.0 47.5	-31 +17	17.5 27.6	6.4 7.0	↓	
9	-31°	1305	3	11.8	-31	48.4	7.4	↓	
10	-33°	1140	3	9.8	-33	54.9	8.3	↓	
11	-34° +18	1174 130	3 0	9.8 50.7	-34 +18	20.1 58.3	8.5 8.9	↓	
12	-33°	1155	3	11.9	-33	23.4	8.5	↓	
13	-32°	1244	3	14.4	-32	1.1	8.3	↓	
14	-32°	1259	3	16.5	-32	52.1	8.3	↓	
15	-33°	1202	3	18.7	-33	9.1	6.7	↓	
16	-34°	1220	3	16.0	-34	0.0	8.4	↓	
17	-34°	1213	3	15.0	-34	27.8	8.5	↓	
18	-34°	1207	3	14.1	-34	33.9	8.6	↓	
19	-31°	1340	3	16.6	-31	33.7	7.7	↓	
20	-31°	1370	3	19.3	-31	34.4	7.3	↓	
21	-30°	1284	3	14.7	-30	41.6	7.5	↓	
22	-32°	1298	3	21.6	-32	31.1	8.5	↓	
23	-32°	1298	3	22.7	-32	40.7	8.6	↓	
24	-33°	1239	3	23.8	-33	38.3	8.8	↓	
25	-34°	1284	3	24.0	-34	5.5	7.1	↓	
26	-34°	1257	3	21.2	-34	19.5	8.7	↓	
27	+32	1284	3	21.4	-32	8.5			
~~28~~									

Identified by J. C. M. Nov. 13, 1912

Checked by A.M.C. Nov. 26, 1912 cards made out by M.C.W. Cards checked by E.P.F.

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Tuesday. Oct. 15. 1912.

Time: 2.15

B 2443 short disp.

No	Int.	Class	Remark
1	4	K0	
2	2	G	
3	5	K0	
4	4	A2	
5	3	K3	
6	A2	K0	
7	2	G5	
8	3	G5	Another star superposed.
9	8	K0	
10	3	G0	
11	5	K0	
12	3	K0	
13	7	A0	
14	3	G0	
15	8	K0	
16	5	F2	
17	10	K0	~~Another star~~ No. 19 partly superposed.
18	4	F5	
19	1	G	Partly superposed on 17.
20	1	G5	
21	2	F0	
22	1	G5	
23	3	G5	
24	2	G0	
25	6	A2	
26	2	A5	
27	2	F0	

1	-29°	1993	4	55.1	-29	45.9	7.9	1 J
2	-30°	2142	4	56.4	-30	15.1	9.3	-30° 2143 superposed mean 9.3
3	-30°	2146	4	56.6	-30	24.6	7.7	1 J
4	-29°	2020	4	58.0	-29	58.8	8.3	1 J
5	-29°	2028	4	59.1	-29	59.5	8.0	1 J
6	~~-29°~~ -30°	2160	4	57.8	-30	19.6	8.7	1 V
7	-30°	2167	4	58.4	-30	40.8	8.5	1 J
8	-31°	2168	4	58.0	-31	0.8	8.5	1 J
9	-31°	2161	4	57.4	-31	31.7	7.1	1 V
10	-31°	2156	4	56.8	-31	35.4	8.5	1 J
11	-31°	2152	4	56.6	-31	34.9	7.9	1 J
12	-31°	~~2149~~ 2151	4	56.6	-31	~~49.9~~ 51.4	8.5	1 J
13	-32°	2088	4	55.7	-32	0.0	7.8	1 J
14	-31°	2137	4	55.5	-31	52.6	8.5	1 J
15	-32°	2078	4	54.6	-32	25.8	7.0	1 J
16	-32°	2102	4	57.5	-32	19.7	8.9	1 J
17	-31°	2163	4	57.7	-31	57.5	6.5	1 J
18	-32°	2112	4	58.2	-32	12.9	9.0	1 J
19	-31°	2162	4	57.6	-31	52.3	8.5	1 J
20	-32°	2123	4	59.0	-32	8.9	9.3	1 J
21	-32°	2126	4	59.3	-32	6.9	9.3	1 J
22	-32°	2129	4	59.8	-32	15.5	9.0	1 J
23	-31°	2183	5	0.0	-31	55.1	8.2	1 J
24	-31°	2185	5	0.1	-31	45.9	8.5	1 J
25	-31°	2188	5	0.5	-31	21.6	8.1	1 J
26	-31°	2197	5	1.1	-31	15.0	8.7	1 J
27	-31°	2198	5	1.2	-31	10.2	8.9	1 J

Curves made out

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Tuesday, Oct. 15, 1912.

B 2444 2 short disp.

No.	Int.	Class	Remark
28	2	I0	
29	2	I5	
30	3	I2	
31	3	I5	
32	3	I0	
33	5	I2	
34	7	I0	
35	4	Iy5	
36	9	I5	
37	7	Q0	
38	2	I0	
39	4	Q0	
40	8	I0	
41	7	Q2	
42	5	Iy5	
43	2	Iy	
44	3	I0	
45	3	Iy5	
46	4	I8	
47	5	Iy0	
48	5	I8	
49	9	I5	
50	4	I8	
51	3	I8	
52	3	Q0	
53	8	Q0	
54	2	I0	

28	−31°	2209	5	2.5	−31	28.8	8.0	∧J
29	−30°	2205	5	2.8	−30	47.8	8.5	∧v
30	−30°	2215	5	3.9	−30	19.6	8.0	∧V
31	−30°	2224	5	4.8	−30	0.8	8.8	∧J
32	−30°	2229	5	5.8	−30	14.2	8.6	∧J
33	−29°	2100	5	6.0	−29	54.1	8.0	∧J
34	−29°	2108	5	6.8	−29	44.9 / 54.1	7.9 / 8.0	∧J
35	−29°	2106	5	6.7	−29	43.2	8.3	∧
36	−30°	2232	5	6.7	−30	22.6	7.0	∧J
37	−30°	2241	5	7.6	−30	7.2	7.9	∧J
38	−29°	2121	5	8.1	−29	45.8	8.3	∧J
39	−29°	2124	5	8.3	−29	24.2	8.3	∧
40	−29°	2148	5	10.5	−29	53.7	7.3	∧J
41	−29°	2146	5	10.7	−29	39.2	8.3	∧v
42	−29°	2154	5	11.4	−29	34.7	8.5	∧J
43	−29°	2147	5	10.9	−29	55.4	9.0	∧J
44	−29°	2150	5	11.2	−29	53.4	8.7	∧J
45	−30°	2289	5	11.6	−30	0.7	8.3	∧J
46	−30°	2291	5	11.8	−30	30.6	8.2	∧J
47	−31°	2314	5	11.5	−31	5.4	7.7	∧J
48	−31°	2309	5	10.9	−31	18.5	8.3	∧J
49	−31°	2328	5	12.3	−31	25.3	7.3	∧J
50	−31°	2331	5	12.8	−31	42.2	8.3	∧J
51	−31°	2236	5	4.5	−31	15.4	8.5	∧J
52	−31°	2239	5	4.9	−31	6.1	8.5	∧J
53	−31°	2244	5	5.4	−31	30.6	7.8	∧J
54	−31°	2256	5	6.2	−31	42	8.9	∧J

cards made on

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Tuesday, Oct. 15, 1912.

B 24442 about dark.

No	Int.	Class	Remark
55	2	A5	
56	2	Fo	Another star partly superposed.
57	4	A2	
58	3	Ge	
59	2	Ko	The following of two.
60	17	F2	
61	9	A3	
62	2	A3	
63	3	Fo	
64	4	F2	
65	3	F8	
66	4	Fo	
67	3	F5	
68	5	Fo	
69	7	A5	
70	5	F2	
71	5	F5	
72	7	A2	
73	6	Fo	
74	3	F5	
75	7	G5	
76	4	F2	
77	5	G5	
78	6	A3	
79	2	Fo	
80	3	G5	
81	2	K2	The southerly of two.

55	-30°	2231	5	6.2	-30	59.8	8.9	
56	-30°	2284	5	7.2	-30	37.0 42.7	8.4 8.8	∧ J
57	-30°	2257	5	8.9	-30	42.4	8.5	∧ J
58	-31°	2277	5	7.9	-31	27.2	8.5	∧ V
59	-31°	2287	5	8.9	-31	31.9	8.5	∧
60	-32°	2213	5	8.9	-32	3.4	7.7	∧ V
61	-32°	2214	5	8.9	-32	13.4	7.3	∧ V
62	-31°	2278	5	8.1	-31	59.4	9.2	∧ J
63	-32°	2197	5	6.7	-32	4.4	8.3	∧ J
64	-32°	2188	5	5.8	-32	13.1	8.0	∧ J
65	-32°	2192	5	6.1	-32	23.2	8.7	∧ V
66	-32°	2201	5	7.1	-32	29.7	8.5	∧ J
67	-32°	2194	5	6.3	-32	46.5	8.5	∧ V
68	-32°	2193	5	6.1	-32	59.0	8.0	∧ J
69	-33°	2144	5	4.8	-33	1.6	8.3	∧ J
70	-33°	2137	5	4.2	-33	27.6	8.5	∧ J
71	-33°	2148	5	5.1	-33	40.7	7.5	∧ J
72	-33°	2136	5	4.1	-33	55.1	8.5	∧
73	-33°	2141	5	5.5	-33	56.1	8.8	∧ J
74	-33°	2143	5	6.5	-33	49.9	9.1	∧ J
75	-34°	2120	5	6.9	-34	1.7	8.3	∧ V
76	-34°	2124	5	7.4	-34	18.0	8.7	∧ J
77	-34°	2128	5	8.1	-34	37.6	8.3	∧ J
78	-34°	2134	5	9.4	-34	32.6	8.5	∧ J
79	-34°	2137	5	9.6	-34	44.6	8.9	∧ J
80	-33°	2176	5	7.8	-33	26.0	8.7	∧
81	-33°	2180	5	7.7	-33	32.9	9.2	∧ V

Cards made out

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Tuesday Oct. 15. 1912.

B 2444 a short diffs.

No.	Int.	Class	Remark
82	4	A2	
83	3	Ky0	
84	7	F5	
85	3	F0	
86	7	F0	
87	2	Ky0	
88	9	F8	
89	1	F	
90	2	F2	
91	1	F0	
92	2	K5	
93	4	B9	
94	2	F2	
95	3	K5	
96	3	F0	
97	3	F0	
98	4	F2	
99	5	F8	
100	4	F0	
101	8	F0	
102	4	F0	
103	3	K5	
104	7	F0	
105	4	A0	
106	2	F0	
107	3	F2	
108	2	K5	

82	−33°	2194	5	9.0	−33	10.1	8.6
83	−32°	2223	5	9.7	−32	57.0	9.0
84	−33°	2199	5	9.7	−33	28.9	8.0
85	−33°	2204	5	10.5	−33	32.9	8.5
86	−33°	2216	5	11.7	−33	12.5	8.3
87	−33°	2218	5	12.0	−33	13.5	9.0
88	−32°	2242	5	11.7	−32	39.0	7.5
89	−31°	2322	5	12.0	−31	58.5	8.7
90	−32°	2246	5	12.6	−32	28.7	9.0
91	−32°	2257	5	13.5	−32	35.1	8.8
92	−32°	2262	5	14.0	−32	27.1	8.7
93	−32°	2270	5	14.9	−32	14.0	9.0
94	−32°	2263	5	14.1	−32	7.4	8.5
95	−31°	2349	5	14.5	−31	49.2	9.0
96	−31°	2348	5	14.4	−31	39.7	8.5
97	−31°	2366	5	15.3	−31	18.2	8.4
98	−31°	2395	5	17.2	−31	42.9	8.0
99	−31°	2400	5	17.7	−31	34.3	8.4
100	−31°	2403	5	18.0	−31	51.8	9.0
101	−31°	2414	5	18.5	−31	51.7	7.5
102	−32°	2313	5	19.2	−32	16.3	8.0
103	−32°	2316	5	19.3	−32	9.6	8.4
104	−32°	2296	5	17.5	−32	39.7	7.5
105	−32°	2303	5	18.3	−32	47.4	8.8
106	−32°	2312	5	19.0	−32	33.4	9.0
107	−31°	2436	5	20.2	−31	54.1	8.2
108	−31°	2439	5	20.3	−31	35.6	8.3

cards made only

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Tuesday Oct 15, 1912.
T 2444 2 short exps.

No.	Int.	Class	Remark
109	2	$g5$	
110	8	Jp_0	
111	7	Jp_0	
112	2	g	
113	3	Jp_2	
114	3	g_5	
115	7	A_5	
116	9	A_0	
117	3	F_0	
118	5	F_0	
119	7	Jp_0	
120	2	A_0	
121	5	F_5	E.
122	3	F_5	
123	4	Jp_0	
124	4	F_0	
125	4	F_2	Another star partly superposed.
126	3	g_0	
127	2	F_2	
128	4	F_5	
129	2	g	
130	2	Mc_5	
131	3	Jp_5	
132	2	g_5	
133	8	Jp_2	
134	10	A_0	
135	10+	N	Burned out

109	−31°	2444	5	20.6	−31	55.2	8.5	∧ J
110	−32°	2336	5	21.4	−32	19.4	7.0	∧ J
111	−32°	2337	5	21.6	−32	37.2	7.7	∧ J
112	−32°	2342	5	21.7	−32	32.9	9.0	∧ J
113	−30°	2306	5	13.2	−30	8.2	7.7	∧ J
114	−29°	2168	5	13.4	−29	48.6	8.3	∧ J
115	−29°	2173	5	13.9	−29	0.1	8.0	∧ J
116	−29°	2192	5	15.9	−29	19.6	7.5	∧ J
117	−29°	2188	5	15.6	−29	56.3	8.7	∧ J
118	−30°	2331	5	15.8	−30	3.0	8.3	∧ J
119	−30°	2338	5	16.4	−30	12.2	7.3	∧ J
120	−30°	2346	5	17.3	−30	14.2	8.7	∧ J
121	−33°	2075	5 4	58.1	−33	19.1	8.7	N.35 2076 4 58.1 −33 20 superposed 9.3
122	−33°	2093	5	0.0	−33	4.1	9.0	∧ J
123	−32°	2138	5	1.1	−32	46.6	8.9	∧ J
124	−32°	2146	5	1.9	−32	53.1	8.9	∧ J
125	−33°	2116	5	1.3	−33	13.1	8.7	N. mean 8.6 −33° 2114 superposed
126	−32°	2176	5	4.5	−32	30.2	8.7	∧ J
127	−32°	2173	5	4.1	−32	13.1	8.7	∧ J
128	−34°	2080	5	3.1	−34	9.4	8.4	∧ J
129	−34°	2088	5	3.8	−34	5.0	9.1	∧ J
130	−34°	2092	5	4.2	−34	40.3	8.2	∧ J
131	−34°	2102	5	4.8	−34	40.3	8.5	∧ J
132	−34°	2117	5	6.2	−34	33.7	9.3	∧ J
133	−35°	2154	5	6.5	−35	3.2	7.3	∧ J
134	−35°	2199	5	11.3	−35	4.3	7.0	∧ J
135	−35°	2214	5	13.0	−35	0.7	5.1	∧ J

cards made out

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Tuesday, Oct. 15, 1912.

B24442 short disp.

No	Int.	Class	Remark
136	10	F	
137	5	fp5	
138	7	B8	
139	5	A2	
140	8	fp5	
141	3	G3	
142	3	F5	
143	2	fp5	
144	3	K2	
145	10+	A	Burned out
146	2	fp	
147	5	fp5	
148	1	fp	
149	1	F	Partly superposed on 148.
150	3	F5	
151	4	F2	
152	3	F5	
Time: 2.45 153	3	K0	
75			
154	2	A5	
155	2	A5	

136	−34°	2198	5	15.8	−34	49.9	6.8	∧1
137	−34°	2177	5	13.5	−34	9.7	8.8	∧1
138	−33°	2235	5	13.2	−33	34.2	8.0	1∧
139	−33°	2238	5	13.5	−33	34.9	9.0	1∧
140	−33°	2217	5	11.8	−33	40.3	7.5	∧1
141	−33°	2256	5	14.9	−33	32.7	9.3	∧∨
142	−33°	2266	5	15.8	−33	31.0	8.7	1∨
143	−33°	2269	5	16.4	−33	44.8	9.1	∧∨
144	−34°	2209	5	17.1	−34	13.7	8.5	1r
145	−34°	2207	5	16.8	−34	28.0	6.4	∧∨
146	−34°	2197	5	15.8	−34	36.0	8.9	1∨
147	−32°	2276	5	15.7	−32	45.1	8.3	∧1
148	−32°	2254	5	13.1	−32	52.8	9.3	∧∨
149	−32°	2253	5	13.1	−32	57.5	9.3	∧∨
150	−33°	2298	5	19.0	−33	29.1	9.1	∧1
151	−30°	2345	5	16.9	−30	45.5	8.8	∧∨
152	−30°	2355	5	18.2	−30	43.2	8.7	∧∨
153	−31°	2416	5	18.7	−31	28.4	8.7	1∨

Identified by ANC. Oct. 19, 1912

Checked. Nov. 8. 1912. D.W.W

cards made out by M. C. W.

Cards checked by E.R.B.

154	−29	2083	5	4.5	−29	28	8.8	1∧ on B24533
✓ 155	−32	2381	5	25.4	−32	34	8.0	1∧ on B24680

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Tuesday Oct. 15, 1912

Time 3:27 B42101 Shut.

No	Int	Class	Remarks
1	4	$\frac{1}{2}$5	
2	7	K0	
3	2	$\frac{1}{2}$5	Ruth's exposure on 4
4	4	K0	
5	3	$\frac{1}{2}$0	
6	3	K2	
7	4	K2	
8	2	$\frac{1}{2}$0	
9	2	$\frac{1}{2}$0	
10	3	F	E
11	2	K2	
12	9	K0	
13	8	K0	
14	1	$\frac{1}{2}$5	
15	3	$\frac{1}{2}$0	
16	1	F5	
17	1	$\frac{1}{2}$0	
18	1	$\frac{1}{2}$	
19	3	$\frac{1}{2}$5	
20	3	F8	
21	4	K0	
22	7	G2	
23	10	$\frac{1}{2}$	
24	5	K0	
25	3	F8	
26	r	$\frac{1}{2}$0	

1	−39°	1689	4	50.4	− 39	17.7	7.5 ✓
2	− 39°	1691	4	50.7	− 39	50.3	6.5 ✓
3	− 39°	1697	4	51.2	− 39	57.7	8.7 ✓
4	− 39°	1699	4	51.3	− 39	57.7	7.7 ✓
5	− 45°	1659	4	52.8	− 40	3.4	8.5 ✓
6	− 39°	1714	4	52.7	− 39	38.9	8.5 ✓
7	− 39°	1708	4	51.9	− 39	8.7	7.5 ✓
8	− 39°	1701	4	51.3	− 39	17.7	9.5 ✓
9	− 38°	1803	4	52.2	− 38	50.2	8.5 ✓
10	− 38°	1791	4	49.9	− 38	54.2	9.2 ✓
11	− 38°	1792	4	50.1	− 38	54.9	8.9 ✓
12	− 38°	1790	4	49.8	− 38	21.6	7.0 ✓
13	− 38°	1781	4	49.0	− 38	21.0	7.1 ✓
14	− 37°	1964	4	52.5	− 37	56.9	9.0 ✓
15	− 38°	1809	4	53.0	− 38	4.8	8.5 ✓
16	− 38°	1816	4	53.7	− 38	13.4	9.1 ✓
17	− 38°	1822	4	54.2	− 38	1.4	9.1 ✓
18	− 38°	1831	4	55.5	− 38	13.9	9.5 ✓
19	− 38°	1835	4	55.9	− 38	10.8	8.7 ✓
20	− 38°	1846	4	57.4	− 38	0.7	8.5 ✓
21	− 39°	1743	4	57.2	− 39	6.6	8.0 ✓
22	− 39°	1749	4	57.8	− 39	15.6	8.3 ✓
23	− 39°	1744	4	57.4	− 39	54.7	6.4 ✓
24	− 39°	1736	4	56.4	− 39	52.3	8.0 ✓
25	− 39°	1731	4	55.5	− 39	37.3	8.2 ✓
26	− 39°	1715	4	53.0	− 39	22.1	8.9 ✓

Cards made out

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Tuesday Oct. 15, 1912

B 42101 Shorts.

No	Int	Class	Remark
27	1	G	
28	2	G5	
29	2	G0	
30	2	K5	
31	3	F5	
32	7	A2	
33	2	G5	
34	2	K0	
35	5	G0	
36	4	F8	
37	5	G0	
38	2	K2	
39	5	K0	
40	3	F5	
41	2	K0	
42	5	F2	
43	2	F8	
44	2	F8	
45	3	K2	
46	1	K	
47	3	K2	
48	2	F5	
49	7	K2	
50	7	B9	
51	8	A0	
52	3	F5	
53	1	F0	

Oct. 15. 1912
Sylvia: H.
Oct. 15
Time: 11.55

27	−40°	16′86	4′	55′.2	−40	3′.9	8′.7
28	−40°	16′86	4′	56′.3	−40	17′.3	8′.5
29	−40°	16′66	4′	54′.1	−40	45′.3	8′.7
30	−41°	16′52	4′	54′.5	−41	6′.1	8′.3
31	−41°	16′58	4′	54′.9	−41	7′.6	9′.3
32	−41°	16′60	4′	56′.1	−41	14′.4	7′.7
33	−41°	16′67	4′	56′.8	−41	12′.6	9′.3
34	−40°	17′00	4′	58′.3	−40	15′.9	8′.7
35	−40°	17′10	4′	59′.8	−40	46′.8	8′.5
36	−40°	17′12	5′	0′.3	−40	44′.2	8′.9
37	−40°	17′16	5′	0′.8	−40	44′.7	8′.4
38	−40°	17′15	5′	0′.7	−40	17′.8	8′.9
39	−39°	17′78	5′	0′.7	−39	43′.3	7′.5
40	−39°	17′85	5′	1′.7	−39	32′.8	9′.0
41	−39°	17′90	5′	2′.9	−39	49′.3	9′.4
42	−39°	17′97	5′	3′.7	−39	43′.3	8′.5
43	−39°	17′99	5′	4′.0	−39	9′.9	9′.0
44	−39°	18′09	5′	5′.3	−39	22′.4	8′.5
45	−39°	18′32	5′	7′.7	−39	47′.4	8′.0
46	−39°	18′32	5′	7′.9	−39	7′.9	8′.7
47	−39°	18′35	5′	8′.1	−39	12′.9	8′.0
48	−40°	17′73	5′	7′.1	−40	1′.8	9′.3
49	−40°	17′65	5′	6′.0	−40	42′.6	7′.5
50	−41°	17′84	5′	4′.4	−41	4′.5	8′.3
51	−41°	17′27	5′	4′.5	−41	23′.4	7′.1
52	−41°	17′38	5′	6′.4	−41	45′.1	8′.8
53	−41°	17′39	5′	6′.5	−41	11′.4	9′.0

Cards made out

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Wednesday Oct. 11 1911.
13 42 101 clear disp.

No	Int	Class	Remark
54	2	F5	
55	2	F0	
56	1	F5	
57	2	F8	
58	2	G0	
59	3	G0	
60	5	G	Covered with nebulosity. No bright lines.
61	1	F	
62	2	G0	
63	1	F8	
64	4	A3	
65	8	A0	
66	3	F0	
67	2	G	
68	6	G5	
69	76	K2	
70	7	F5	
71	3	K0	
72	4	A3	E.
73	8	F5	
74	2	A0	
75	5	K0	
76	1	A	
77	8	Ma	
78	3	F2	
79	1	F5	
80	4	K0	
81			

54	-41°	1780	5	7.8	-41	59.2	7.6	1
55	-40°	1782	5	8.2	-40	37.6	9.8	
56	-40°	1784	5	8.4	-40	48.2	9.6	
57	-40°	1788	5	8.9	-40	34.6	9.0	
58	-40°	1795	5	9.7	-40	48.9	9.0	
59	-40°	1797	5	10.4	-40	27.8	8.6	
60	-40°	1796	5	10.0	-40	11.5	Neb.	
61	-40°	1790	5	9.1	-40	13.0	9.1	
62	-39°	1848	5	9.7	-39	31.2	8.5	
63	-39°	1869	5	11.6	-39	25.3	9.1	
64	-38°	1960	5	12.6	-38	48.5	8.5	
65	-39°	1884	5	13.1	-39	25.9	7.5	
66	-39°	1887	5	13.2	-39	39.4	8.8	
67	-40°	1810	5	12.6	-40	9.0	9.1	
68	-41°	1791	5	12.2	-41	12.7	7.9	
69	-41°	1790	5	12.1	-41	22.7	7.3	
70	-41°	1805	5	14.4	-41	11.0	7.8	
71	-40°	1864	5	17.4	-40	53.3	8.3	
72	-41°	1829	5	17.7	-41	7.0	8.4	
73	-39°	1919	5	16.6	-39	53.2	7.0	
74	-40°	1850	5	17.1	-40	3.7	9.0	
75	-39°	1922	5	17.4	-39	37.4	7.3	
76	-39°	1921	5	17.3	-39	23.6	8.9	
77	-39°	1940	5	19.3	-39	48.1	6.2	
78	-39°	1938	5	19.1	-39	57.0	8.9	
79	-40°	1868	5	19.1	-40	6.2	9.3	
80	-38°	2001	5	17.8	-38	36.7	7.3	

Cards made out

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Wednesday, Oct. 6, 1915.

T342101 short exp.

No.	Int.	Class	Remarks
81	2	H0	
82	4	F0	
83	1	G5	
84	2	F5	
85	1	G	
86	4	F5	
87	2	F5	
88	2	K2	Irm a group.
89	8	F5	
90	4	K0	
91	3	F5	
92	5	G0	
93	3	G0	
94	2	G0	
95	1	G5	
96	2	K0	
97	6	F5	
98	1	G	
99	3	G0	
100	1	K0	
101	4	K0	
102	2	K2	
103	2	F0	
104	2	A	Lines F not seen distinctly.
105	1	K	
106	8	K5	
107	4	F5	

81 − 38°	2016	5	20.0 − 38	9.9	8.0	J
82 − 38°	2018	5	20.1 − 38	22.3	8.1	V
83 − 38°	2022	5	20.5 − 38	14.3	8.7	J
84 − 38°	2024	5	20.8 − 38	9.4	8.5	J
85 − 38°	2021	5	20.3 − 38	40.1	9.0	J
86 − 38°	2026	5	20.9 − 38	58.9	8.5	J
87 − 38°	2028	5	21.1 − 38	53.6	9.5	J
88 − 39°	1951	5	20.3 − 39	4.8	9.3	J
89 − 37°	1977	4	55.0 − 37	3.8	6.7	J
90 − 36°	1985	4	55.5 − 36	48.4	7.9	J
91 − 36°	1997	4	55.6 − 36	59.8	8.5	J
92 − 37°	1993	4	57.5 − 37	8.9	7.4	J
93 − 37°	1994	4	57.6 − 37	13.2	8.5	J
94 − 37°	2017	5	0.2 − 37	32.6	9.3	J
95 − 37°	2030	5	1.8 − 37	48.1	9.0	J
96 − 38°	1877	5	1.7 − 38	7.7	8.5	J
97 − 38°	1880	5	2.0 − 38	18.0	8.7	J
98 − 38°	1870	5	1.0 − 38	30.3	9.0	V
99 − 38°	1861	5	0.3 − 38	43.0	8.5	V
100 − 39°	1764	4	59.7 − 39	26.4	8.7	J
101 − 37°	2036	5	2.6 − 37	21.0	8.3	J
102 − 37°	2038	5	2.8 − 37	51.6	8.5	J
103 − 37°	2044	5	3.6 − 37	48.3	9.3	J
104 − 37°	2047	5	4.1 − 37	46.6	8.7	V
105 − 37°	2045	5	3.6 − 37	31.6	8.7	J
106 − 37°	2071	5	7.3 − 37	33.4	6.8	J
107 − 37°	2081	5	8.7 − 37	34.2	8.7	J

Cards made out

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Wednesday Oct. 16 1912.

9342101 - last info.

No.	Int.	Class	Remarks
108	2	fyo	
109	1	fy	
110	1	fyo	
111	1	fyo	
112	2	fyo	
113	3	fro	
114	1	fr	
115	2	fy5	
116	5	f2	
117	2	fro	
118	3	fyo	
119	2	f2	
120	2	fyo	
121	3	f5	
122	4	a2	
123	1	fy	
124	2	fyo	
125	4	fy5	
126	3	fro	
127	1	fr	
128	2	fyo	
129	1	fy5	
130	8	fy5	
131	4	fy5	
132	3	fr2	
133	10+	fy	Plumes out
134	10	f	" "

108	-37°	20~~59~~66	5	6.5	-37	58.6	8.7 ✓
109	-38°	1909	5	5.6	-38	32.6	8.7 ✓
110	-38°	1931	5	8.5	-38	5.4	9.0 ✓
111	-38°	1933	5	8.6	-38	6.8	9.0 ✓
112	-38°	1934	5	9.0	-38	48.4	8.5 ✓
113	-38°	1944	5	9.9	-38	10.6	8.5 ✓
114	-38°	1955	5	11.3	-38	29.5	8.4 ✓
115	-38°	1956	5	11.7	-38	14.6	8.5 ✓
116	-37°	2109	5	12.2	-37	42.6	8.3 ✓
117	-37°	2113	5	12.5	-37	30.9	9.0 ✓
118	-37°	2121	5	13.4	-37	44.9	8.9 ✓
119	-38°	1970	5	13.4	-38	6.0	9.2 ✓
120	-38°	1971	5	13.5	-38	17.5	9.0 ✓
121	-37°	2112	5	12.4	-37	15.5	8.8 ✓
122	-37°	2117	5	13.0	-37	8.8	8.3 ✓
123	-36°	2162	5	13.9	-36	57.5	9.0 ✓
124	-36°	2167	5	14.7	-36	52.5	9.1 ✓
125	-36°	2173	5	15.1	-36	52.5	8.0 ✓
126	-37°	2143	5	16.8	-37	23.6	8.3 ✓
127	-37°	2133	5	14.7	-37	28.1	8.7 ✓
128	-37°	2130	5	14.4	-37	39.3	9.2 ✓
129	-37°	2141	5	15.6	-37	46.3	9.3 ✓
130	-37°	2176	5	19.3	-37	26.9	7.3 ✓
131	-36°	2213	5	19.0	-36	47.9	8.2 ✓
132	-36°	2209	5	18.9	-36	29.2	8.3 ✓
133	-35°	2089	4	599	-35	39.2	4.7 ✓
134	-35°	2090	5	0.0	-35	53.9	6.5 ✓

Can do — un ade out

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Wednesday, Oct. 16, 1912.

13 42101 short disp.

No.	Int.	Class	Remarks
135	5	Fz	
136	2	Gs	
137	7	Gs	
138	3	Ho	
139	3	Gs	
140	7	Kg	
141	2	Fs	
142	1	Gs	
143	1	Go	
144	1	Fs	
145	1	K	
146	3	Mz	
147	1	Fs	
148	1	Gs	
149	5	Fs	
150	2	K	Region of K not seen distinctly
151	6	Ho	
152	2	Go	
153	10	G	
154	2	Gs	
155	7	Gs	Another star superposed on preceding side: Of same class
156	8	Mz	
157	2	Gs	
158	1	G	
159	2	Go	
160	4	Fs	
12,18 161	2	Go	

cmk, 132, 74

135	− 35°	2106	5	1.9	− 35	12.2	7.5 v
136	− 35°	2121	5	3.5	− 35	23.0	9.0 ✓
137	− 35°	2126	5	3.8	− 35	52.9	6.9 ✓
138	− 35°	2138	5	4.7	− 35	47.9	8.5 ✓
139	− 35°	2144	5	5.6	− 35	27.6	8.7 ✓
140	− 36°	2080	5	6.3	− 36	25.8	7.8 ✓
141	− 36°	2067	5	4.7	− 36	37.1	8.8 ✓
142	− 36°	2068	5	4.7	− 36	41.8	8.7 ✓
143	− 36°	2070	5	4.9	− 36	45.2	9.0 ✓
144	− 36°	2073	5	5.2	− 36	43.6	9.5 ✓
145	− 37°	2067	5	6.7	− 37	2.9	9.1 ✓
146	− 36°	2090	5	7.0	− 36	38.0	8.0 ✓
147	− 36°	2092	5	7.1	− 36	49.6	9.2 ✓
148	− 36°	2093	5	7.4	− 36	51.9	9.0 ✓
149	− 36°	2094	5	7.4	− 36	32.1	8.3 ✓
150	− 35°	2165	5	7.7	− 35	47.2	8.9 ✓
151	− 35°	2176	5	9.3	− 35	58.2	7.5 ✓
152	− 36°	2185	5	9.7	− 35	58.2	9.0 ✓
153	− 36°	2127	5	10.1	− 36	7.7	6.1 ✓
154	− 36°	2126	5	10.0	− 36	18.8	8.7 ✓
155	− 36°	2135	5	10.8	− 36	47.8	7.2 ✓ −36° 2133 mag. 9.0 superposed
156	− 35°	2203	5	11.8	− 35	57.7	8.3 ✓
157	− 36°	2146	5	12.1	− 36	24.1	8.3 ✓
158	− 36°	2147	5	12.4	− 36	28.1	9.0 ✓
159	− 35°	2215	5	13.0	− 35	44.7	9.3 ✓
160	− 35°	2220	5	13.5	− 35	30.4	8.6 ✓
161	− 36°	2164	5	14.0	− 36	20.1	9.2 ✓

Checked by J.C.M. Nov. 18, 1912 — Identified by amc Oct. 23, 1912 Coords checked B.D.S.

Cards made out by Miss Gill.

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Wednesday Oct 11, 1911b

Time: 12.32

T3 14690 short drift.

No.	Int.	Class	Remark
~~16~~	2	F5	
2	2	Go	
3	3	A0	
4	4	Go	
5	4	F2	
6	3	K5	
7	5	F2	
8	3	Ma	
9	8	Go	
10	4	A0	
11	2	F5	
12	4	G5	
13	1	A0	
14	8	G5	
15	6	A0	
16	4	A05	
17	5	A0	
18	2	K2	
19	5	G5	
20	3	K2	
21	4	A0	
22	2	K0	
23	3	K0	
24	3	G5	
25	9	G5	
26	8	F5	
27	3	K0	

1	−30°	2367	5	19.6	−30	25.6	8.7	∧ ∨
2	−30°	2372	5	20.2	−30	15.2	8.5	∧ ∨
3	−30°	2375	5	20.6	−30	43.8	8.5	∧ ∨
4	−30°	2380	5	21.3	−30	47.1	8.3	∧ ∨
5	−30°	2390	5	22.0	−30	41.0	8.5	∧ ∨
6	−31°	2480	5	23.2	−31	7.1	8.8	∧ ∨
7	−31°	2492	5	23.9	−31	11.5	8.5	∧ ∨
8	−31°	2500	5	24.7	−31	8.1	8.1	∧ ∨
9	−31°	2468	5	22.4	−31	40.3	7.1	∧ ∨
10	−31°	2476	5	22.7	−31	51.4	8.7	∧ ∨
11	−31°	2483	5	23.4	−31	44.9	9.0	∧ ∨
12	−31°	2486	5	23.6	−31	56.4	8.0	∧ ∨
13	−32°	2368	5	23.8	−32	8.4	8.5	∧ ∨
14	−32°	2359	5	23.2	−32	31.6	7.0	∧ ∨
15	−32°	2363	5	23.6	−32	55.4	7.8	∧ ∨
16	−32°	2381	5	25.4	−32	33.9	8.0	∧ ∨
17	−32°	2389	5	26.2	−32	11.9	8.0	∧ ∨
18	−33°	2368	5	25.9	−33	38.1	8.5	∧ ∨
19	−33°	2377	5	27.1	−33	28.7	8.0	∧ ∨
20	−33.5°	2381	5	27.7	−33.5	37.4	8.1	∧ ∨
21	−33°	2385	5	28.1	−33	25.2	8.6	∧ ∨
22	−33°	2393	5	28.6	−33	2.6	9.0	∧ ∨
23	−32°	2418	5	29.0	−32	42.2	8.4	∧ ∨
24	−32°	2430	5	30.7	−32	58.7	8.7	∧ ∨
25	−32.5°	2414	5	30.7	−33	9.5	6.0	∧ ∨
26	−33°	2419	5	30.9	−33	20.8	6.8	∧ ∨
27	−32.5°	2410	5	30.5	−32.5	40.1	8.2	∧ ∨

cards made out

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Wednesday Oct. 16, 1912
B 14690 short exp.

No.	Int.	Class	Remark
28	1	H	
29	8	A2	
30	2	F8	
31	2	G0	
32	3	G5	
33	5	H0	
34	7	K0	
35	2	G5	The s. f. of two.
36	7	K0	
37	3	K2	
38	3	K0	
39	10+	A	Burned out
40	5	F5	
41	10	A	
42	2	G0	
43	3	A2	
44	5	G5	
45	3	K0	
46	5	Ma	
47	2	F8	
48	4	A0	
49	3	A2	
50	10	G5	Burned out.
51	1	K0	
52	3	A5	
53	3	K0	
54	6	K3	

28	−33°	2413	5	30.6	−33	38.4	8.6	1 V
29	−34°	2815	5	28.8	−34	23.6	6.9	1 J
30	−34°	2312	5	28.5	−34	30.3	9.3	1 J
31	−34°	2313	5	28.6	−34	34.9	9.0	1 V
32	−34°	2327	5	30.1	−34	33.4	8.6	1 V
33	−34°	2350	5	32.1	−34	47.9	7.5	1 J
34	−35°	2394	5	32.2	−35	8.4	7.0	1 J
35	−35°	2413	5	33.3	−35	2.9	9.3	1 J
36	−34°	2368	5	33.3	−34	45.9	7.0	1 V
37	−33°	2440	5	32.4	−33	55.1	8.5	1 J
38	−33°	2442	5	32.5	−33	54.2	8.5	1 V
39	−34°	2375	5	35.1	−34	8.2	2.5	1 J
40	−33°	2480	5	36.4	−33	22.5	8.7	1 J
41	−33°	2483	5	36.9	−33	28.5	6.6	1 V
42	−33°	2485	5	37.0	−33	43.8	9.1	1 J
43	−34°	2404	5	38.0	−34	2.2	9.6	J Magn. 9.6 V −34° 2403 Superposed
44	−34°	2412	5	38.4	−34	0.7	7.5	1 V
45	−34°	2411	5	38.3	−34	7.7	8.0	1 J
46	−33°	2504	5	38.7	−33	29.1	7.5	1 J
47	−33°	2492	5	37.7	−33	15.8	9.0	1 V
48	−33°	2495	5	38.0	−33	3.5	8.4	1 J
49	−32°	2505	5	38.2	−32	57.9	8.9	1 J
50	−32°	2479	5	35.2	−32	41.6	5.9	1 V
51	−33°	2468	5	35.0	−33	3.1	8.8	1 V
52	−32°	2476	5	34.9	−32	8.9	8.6	1 V
53	−32°	2488	5	36.2	−32	3.5	8.2	1 J
54	−31°	2641	5	35.4	−31	18.8	7.5	1 J

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Wednesday Oct. 16 1912

B14690 short disp

No.	Int.	Class	Remark
55	5	Iγ0	
56	1	Iγ5	Nearly all superposed on 55.
57	2	I1/0	
58	4	I1/2	
59	2	Iγ0	
60	1	Iγ5	
61	2	Iγ	
62	16	A	Burned out
63	5	I0	
64	2	A5	
65	3	A3	
66	5	A2	
67	3	A3	
68	8	I0	
69	5	I0	
70	3	I0	
71	2	Iγ5	
72	3	I1/0	
73	2	I1/0	
74	4	Iγ5	
75	5	I1/0	
76	8	A0	
77	5	I1/2	
78	2	I1/2	
79	4	A5	
80	3	I1/0	
81	6	Iγ5	Another star partly superposed.

55	−31°	2652	5	36.2	−31	24.4	7.9	∧ ∨
56	−31°	2651	5	36.1	−31	28.1	8.3	∧ J
57	−31°	2657	5	36.5	−31	17.7	8.5	∧ /
58	−30°	2552	5	35.2	−30	42.7	8.0	∧ J
59	−30°	2559	5	35.7	−30	47.3	8.7	∧ J
60	−30°	2562	5	36.3	−30	33.1	8.7	∧ ∨
61	−30°	2565	5	36.9	−30	44.4	8.5	∧ J
62	−30°	2571	5	37.4	−30	35.7	6.4	∧ J
63	−30°	2583	5	39.3	−30	40.3	8.0	∧ J
64	−30°	2588	5	39.6	−30	40.3	9.0	∧ /
65	−30°	2592	5	40.1	−30	57.8	8.5	∧ J
66	−30°	2596	5	40.9	−30	57.8	8.5	∧ J
67	−30°	2595	5	40.8	−30	35.1	8.5	∧ J
68	−31°	2704	5	40.5	−31	43.8	6.8	∧ /
69	−31°	2711	5	41.0	−31	34.4	7.7	∧ ∨
70	−31°	2708	5	42.9	−31	20.7	8.0	∧ J
71	−32°	2526	5	40.1	−32	52.5	8.5	∧ J
72	−32°	2531	5	40.6	−32	39.5	8.3	∧ J
73	−33°	2532	5	41.7	−33	1.6	8.7	∧ J
74	−32°	2569	5	44.2	−32	27.9	7.5	∧ ∨
75	−32°	2573	5	44.5	−32	32.9	6.9	∧ J
76	−32°	2587	5	45.6	−32	50.1	6.9	∧ ∨
77	−33°	2547	5	43.8	−33	28.7	7.2	∧ J
78	−31°	2668	5	47.5	−31	58.0	7.7	∧ ∨
79	−31°	2672	5	47.8	−31	57.9	9.0	∧ ∨
80	−32°	2507	5	38.3	−32	3.9	8.5	∧ /
81	−31°	2606	5	42.8	−31	8.3	7.6	∧ ∨ −31° 2608 mag. 9.1 superposed

Cards made out

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Wednesday Oct. 18, 1916.

73.14690 chat cusp.

No.	Frt.	Class	Remarks
82	3	H0	
83	3	H0	
84	4	F5	
85	3	F0	
86	6	G5	
87	5	A3	
88	9	A0	
89	6	F5	A trail of a brighter star? no
90	4	K0	
91	5	F0	
92	8	A	Partly superposed on 93.
93	5	A2	
94	4	F5	
95	4	F2	
96	2	F8	
97	3	G9	
98	3	K0	
99	2	A	Quivken star partly superposed.
100	5	G5	
101	2	G	
102	9	B9	
103	1	B	
Time: 12.54.04	3	A	
Oct. 17.4 9.37.185	7	K0	
106	2	F5	
107	2	F0	
108	4	F2	

82	−30°	2537	5	33.2	−30	34.9	8.0	∧ J
83	−30°	2549	5	34.5	−30	22.9	8.5	∧ J
84	−29°	2395	5	34.4	−29	47.0	8.0	∧ J
85	−29°	2398	5	35.0	−29	42.3	8.5	∧ J
86	−29°	2413	5	36.1	−29	46.9	7.5	∧ J
87	−29°	2436	5	38.0	−29	23.0	8.5	∧ J
88	−28°	2298	5	31.3	−28	47.0	6.5	∧ J
89	−28°	2317	5	32.8	−28	42.4	6.9	∧ J
90	−29°	2383	5	33.0	−29	0.9	7.1	∧ J
91	−28°	2329	5	33.7	−28	54.3	8.0	∧ J
92	−29°	2348	5	29.1	−29	56.1	6.6	∧ J
93	−30°	2483	5	29.0	−30	2.2	7.7	∧ J
94	−29°	2316	5	26.7	−29	46.0	8.0	∧ J
95	−30°	2452	5	26.8	−30	57.5	8.0	∧ J
96	−30°	2454	5	27.2	−30	56.5	9.1	∧ J
97	−30°	2464	5	27.7	−30	38.6	8.7	∧ J
98	−30°	2479	5	28.6	−30	51.0	8.3	∧ J
99	−30°	2499	5	29.8	−30	48.0	8.5	∧ J −30° 2496 Superposed magn 9.0
100	−30°	2513	5	31.2	−30	37.1	7.7	∧ J
101	−30°	2518	5	31.7	−30	14.9	8.7	∧ J
102	−31°	2563	5	30.2	−31	46.9	7.3	∧ J
103	−31°	2548	5	29.1	−31	32.3	8.0	∧
104	−31°	2539	5	28.4	−31	20.0	8.7	∧ J
105	−30°	2421	5	24.3	−30	13.5	6.9	∧ J
106	−30°	2410	5	23.4	−30	7.0	8.3	∧ J
107	−30°	2409	5	23.3	−30	14.5	8.7	∧ J
108	−29°	2265	5	23.0	−29	41.8	8.2	∧ J

cards made out

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Thursday Oct. 17. 1912

12:46 90 shot disp.

No.	Dist.	Class	Remark
109	3	fg^5	
110	1	Hf_0	
111	5	fg^5	
112	1	Hf_2	
113	8	Ca_2	
114	6	fg^5	
115	4	Hf_2	
116	4	Hf_2	E.
117	8	Hf^5	
118	4	Hf_0	
119	3	Hf_0	
120	1	fg	
121	7	fg^5	
122	3	Hf_0	
123	3	fg^5	
124	2	Ca_0	
125	3	Ca_0	
126	10+	Hf	Turned out
127	9	Hf_0	
128	3	Hf^5	
129	4	Hf_0	
130	5	Ca^5	
131	2	Ca_0	
132	2	Hf_0	
Time 9 32	133	4	Hf_0
	134		
	135		

109	−29°	2272	5	23.7	−29	27.0	8.7	∧ ∨
110	−33°	2329	5	21.7	−33	16.4	8.6	∧ ∧
111	−34°	2238	5	20.4	−34	19.6	8.2	∧ ∧
112	−34°	2229	5	19.5	−34	24.7	8.6	∧ ∧
113	−34°	2231	5	19.6	−34	31.5	7.6	∧ ∨
114	−34°	2241	5	20.8	−34	57.6	7.3	∧ ∧
115	−35°	2276	5	19.7	−35	15.6	8.0	∧ ∧
116	−35°	2254	5	17.9	−35	25.8	8.3	∧ ∧
117	−35°	2291	5	21.4	−35	27.6	8.5	∧ ∧
118	−35°	2290	5	21.4	−35	42.0	8.7	∧ ∧
119	−35°	2275	5	19.7	−35	54.2	8.3	∧ ∨
120	−34°	2258	5	22.5	−34	43.0	9.0	∧ ∧
121	−34°	2260	5	22.8	−34	43.4	7.0	∧ ∨
122	−34°	2276	5	24.7	−34	53.2	8.4	∧ ∧
123	−34°	2279	5	24.9	−34	37.0	8.7	∧ ∨
124	−34°	2265	5	23.6	−34	12.3	9.3	∧ ∧
125	−34.5°	2345	5	26.6	−34.5	27.5	8.7	∧ ∨
126	−34.5°	2348	5	26.8	−34.5	34.0	4.1	∧ ∨
127	−35°	2367	5	28.7	−35	13.4	6.4	∧ ∧
128	−35°	2378	5	30.2	−35	29.4	8.7	∧ ∧
129	−35°	2381	5	30.6	−35	34.0	8.5	∧ ∧
130	−34.5°	2375	5	30.0	−35	56.0	7.7	∧ ∧
131	−35°	2435	5	34.6	−35	14.9	9.0	∧ ∧
132	−34°	2378	5	35.2	−34	42.3	8.4	∧ ∧
133	−35°	2456	5	36.9	−35	18.9	8.3	∧ ∨
~~134~~								

Identified by Anne. Oct. 21, 1912

Checked Oct. 28. 1912 W.D.W.

cards made out by M. C. R.

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Thursday, Oct. 17, 1912.

Time: 9.34 — R.A. 18 55 7

No.	Int.	Class	Remarks
1	4	A2	
2	2	F5	
3	3	A0	
4	4	A0	
5	4	F8	
6	4	A0	
7	2	A2	
8	3	Ma	
9	4	A0	
10	4	F3	
11	3	F0	
12	3	F2	
13	4	A0	
14	3	F5	
15	3	F0	E.
16	4	A2	
17	6	M3	
18	4	K0	
19	5	Mb	
20	4	G2	
21	3	Kp	
22	2	F8	
23	2	F8	
24	3	K0	
25	4	F5	
26	5	B9	
27	3	F2	

1	-24°	3119	5	23.6	-24	21.5	7.8
2	-24°	3156	5	25.8	-24	21.5	8.7
3	-24°	3170	5	26.7	-24	2.1	8.4
4	-23°	2824	5	26.9	-23	30.8	7.9
5	-24°	3196	5	28.4	-24	25.1	7.6
6	-24°	3166	5	26.5	-24	58.4	8.2
7	-24°	3187	5	27.6	-24	51.1	8.5
8	-25°	2507	5	27.9	-25	27.7	7.1
9	-24°	3246	5	31.6	-24	47.5	8.0
10	-24°	3251	5	32.1	-24	29.1	7.9
11	-23°	2908	5	31.8	-23	55.7	8.7
12	-24°	3259	5	32.6	-24	12.5	7.9
13	-22°	1186	5	34.3	-22	43.6	8.0
14	-22°	1187	5	34.4	-22	13.8	8.2
15	-21°	1231	5	34.8	-21	37.2	7.8
16	-22°	1194	5	36.1	-22	27.0	6.5
17	-21°	1252	5	38.7	-21	43.1	7.2
18	-23°	3068	5	40.7	-23	10.8	7.5
19	-23°	3073	5	41.0	-23	41.3	7.3
20	-24°	3143	5	42.1	-24	32.6	8.8
21	-24°	3443	5	43.2	-24	30.0	8.0
22	-23°	3120	5	43.8	-23	51.0	8.4
23	-24°	3287	5	44.4	-24	23.6	9.0
24	-24°	3281	5	44.1	-24	57.3	7.7
25	-25°	2579	5	44.3	-25	18.6	7.6
26	-25°	2581	5	44.5	-25	12.9	8.3
27	-25°	2578	5	44.3	-25	36.6	8.1

cards made out

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Thursday, Oct. 17, 1912

B 18557

No.	Int.	Class	Remark
28	3	A3	
29	3	B9	
30	5	B9	
31	6	F5	
32	5	A3	
33	6	A3	
34	7	F8	
35	6	F0	
36	2	F5	
37	4	F2	
38	8	F0	
39	5	A2	
Lima 9.44 40	5	A2	
41	7	B8	

28	-25°	2584	5	34.7 - 25	41.9	8.9 ✓
29	-25°	2594	5	35.7 - 25	44.4	8.6 ✓
30	-25°	2598	5	36.0 - 25	34.6	8.0 ✓
31	-26°	2393	5	36.3 - 26	23.8	7.7 ✓
32	-27°	2446	5	37.4 - 27	46.3	7.8 ✓
33	-27°	2462	5	39.2 - 27	36.3	7.6 ✓
34	-27°	2504	5	42.4 - 27	10.4	7.3 ✓
35	-26°	2343	5	32.7 - 26	47.8	7.3 ✓
36	-27°	2391	5	32.6 - 27	39.7	8.4 ✓
37	-27°	2395	5	33.1 - 27	17.2	6.8 ✓
38	-27°	2389	5	32.3 - 27	57.0	6.4 ✓
39	-25°	2452	5	22.7 - 25	44.5	7.2 ✓
40	-26°	2225	5	22.4 - 26	41.2	6.9 ✓

Identified by ANC. Oct. 25, 1912
Checked by J.B.M. Nov. 18, 1912.
cards made out by M.C.W.
Cards checked by E.R.B.

✓ 41 -28 2449 5 42.2 -28 41 6.2 29 on B12664

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Thursday Oct. 17, 1912.

Time: 9.45

B 41088 short exp.

No.	Int.	Class	Remark
1	6	Mb	
2	3	M0	
3	4	Fz	
4	8	Fz	
5	1	M	Partly superposed on 4.
6	2	M5	
7	2	A	
8	1	A	
9	4	A0	
10	6	F5	
11	3	A0	
12	3	F8	
13	2	M0	
14	10+	G	Burned out.
15	1	K	Partly superposed on 14.
16	2	G0	
17	.5	Fz	
18	3	Cont.	Nebulosity
19	4	A0	
20	2	G0	
21	1	G0	
22	1	G	
23	2	G5	
24	4	A2	
25	7	M0	
26	6	A5	
27	2	G0	

1	−25°	2370	5	14.4	− 25	15.2	7.3 ✓
2	−25°	2371	5	14.6	− 25	23.4	9.0 ✓
3	−25°	2373	5	14.8	− 25	45.0	8.9 ✓
4	−26°	2148	5	14.7	− 26	3.5	7.1 ✓
5	−26°	2146	5	14.6	− 26	8.6	9.3 ✓
6	−25°	2380	5	15.8	− 25	40.0	8.9 ✓
7	−25°	2398	5	17.0	− 25	50.5	9.4 ✓
8	−25°	2400	5	17.1	− 25	52.8	9.4 ✓
9	−26°	2175	5	17.5	− 26	1.8	8.8 ✓
10	−25°	2404	5	17.5	− 25	42.0	8.2 ✓
11	−25°	2406	5	18.1	− 25	30.1	9.1 ✓
12	−24°	3016	5	15.9	− 24	50.1	9.2 ✓
13	−24°	3021	5	16.2	− 24	39.8	9.1 ✓
14	−24°	3023	5	16.6	− 24	54.2	5.7 ✓
15	−24°	3024	5	16.7	− 24	55.0	9.0 ✓
16	−25°	2399	5	17.0	− 25	5.6	9.6 ✓
17	−24°	3060	5	19.1	− 24	48.5	8.4 ✓
18	−24°	3058	5	19.0	− 24	38.8	neb. ✓
19	−24°	3059	5	19.1	− 24	28.8	9.1 ✓
20	−23°	2650	5	16.0	− 23	51.8	9.4 ✓
21	−23°	2652	5	16.2	− 23	54.5	9.4 ✓
22	−23°	2659	5	16.4	− 23	57.0	9.4 ✓
23	−23°	2661	5	16.6	− 23	59.8	8.9 ✓
24	−23°	2663	5	16.8	− 23	34.1	8.9 ✓
25	−23°	2675	5	17.5	− 23	22.5	7.7 ✓
26	−23°	2685	5	17.8	− 23	10.8	8.8 ✓
27	−23°	2686	5	17.9	− 23	44.8	9.4 ✓

cards made out

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Thursday, Oct. 17, 1912.

B 41088 about disp.

No.	Int.	Class	Remark
28	2	fg5	
29	6	A0	
30	4	K0	
31	2	fg0	
32	4	F5	
33	2	K0	
34	3	A5	Metallic lines strong for this class
35	6	K0g	
36	2	F2	
37	2	K2	
38	2	F	
39	10	fg0	
40	3	K0g	
41	2	F8	
42	6	fg5	
43	2	K2	
44	2	fg5	
45	4	K2	
46	3	K2	
47	3	K0	
48	3	fg0	
49	8	K0	
50	3	K0	
51	1	K0	
52	3	A5	
53	3	K0	
54	3	fg0	

28	-23°	2705	5	19.4	-23	11.0	9.2 ✓
29	-23°	2716	5	20.1	-23	16.8	8.4 ✓
30	-22°	1106	5	19.9	-22	52.4	8.8 ✓
31	-23°	2733	5	20.8	-23	0.9	9.1 ✓
32	-22°	1109	5	20.5	-22	37.1	8.7 ✓ -22° 1108 magn. 9.0 Superposed
33	-22°	1111	5	20.6	-22	42.0	8.8 ✓
34	-23°	2754	5	22.2	-23	0.6	9.3 ✓
35	-23°	2746	5	21.8	-23	26.2	8.9 ✓
36	-23°	2769	5	22.6	-23	36.1	9.4 ✓
37	-23°	2760	5	22.6	-23	12.5	9.2 ✓
38	-22°	1123	5	22.4	-22	59.7	9.1 ✓
39	-22°	1120	5	22.3	-22	33.6	6.6 ✓
40	-22°	1118	5	21.6 ~~20.8~~	-22	31.7 ~~33.3~~	9.0 ✓
41	-22°	1125	5	22.9	-22	44.4	9.4 ✓
42	-22°	1129	5	23.6	-22	50.2	8.0 ✓
43	-22°	1126	5	23.2	-22	5.7	8.9 ✓
44	-22°	1131	5	23.8	-22	18.6	8.9 ✓
45	-21°	1181	5	24.6	-21	31.1	8.0 ✓
46	-21°	1183	5	24.8	-21	41.6	8.5 ✓
47	-21°	1185	5	25.0	-21	28.0	8.8 ✓
48	-21°	1184	5	24.8	-21	14.3	8.9 ✓
49	-21°	1188	5	25.6	-21	3.9	9.0 ✓
50	-21°	1191	5	26.3	-21	24.5	8.8 ✓
51	-21°	1186	5	25.6	-21	52.4	9.1 ✓
52	-21°	1189	5	25.7	-21	54.2	9.2 ✓
53	-21°	1195	5	26.8	-21	51.7	8.9 ✓
54	-21°	1192	5	26.8	-21	17.7	9.0 ✓

cards made out

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Thursday Oct. 17. 1912

B41088 shot disp.

No.	Int.	Class	Remark
55	6	F0	
56	4	F10	
57	3	A2	
58	7	F0	
59	1	G	
60	1	F	
61	3	F8	
62	2	F8	
63	2	A	Partly superposed on 64.
64	2	G	
65	1	F5	
66	6	G5	
67	1	G	
68	5	K2	
69	2	F8	
70	3	F2	
71	4	G0	
72	3	F	
73	4	A2	
74	5	B9	
75	3	F0	
76	2	G	
77	3	G0	
78	1	F	
79	3	G0	
80	1	F2	
81	5	F0	

55	-21°	1193	5	26.8 - 21	7.6	8.5
56	-21°	1199	5	27.7 - 21	16.4	8.4
57	-21°	1201	5	28.2 - 21	4.3	9.2
58	-21°	1205	5	28.8 - 21	9.9	7.5
59	-21°	1202	5	28.3 - 21	30.0	9.1
60	-21°	1200	5	28.0 - 21	37.9	9.0
61	-21°	1206	5	29.1 - 21	53.9	9.1
62	-22°	1155	5	28.1 - 22	14.0	9.3
63	-22°	1148	5	27.1 - 22	2.1	9.4
64	-21°	1196	5	27.1 - 21	59.9	9.2
65	-22°	1146	5	26.6 - 21	20.9	9.5
66	-22°	1141	5	26.0 - 22	20.1	8.6
67	-22°	1138	5	25.4 - 22	24.2	9.5
68	-23°	2820	5	26.6 - 23	2.1	8.9
69	-22°	1134	5	24.4 - 22	46.8	9.3
70	-22°	1135	5	24.5 - 22	55.7	8.8
71	-23°	2804	5	25.5 - 23	9.7	9.0
72	-23°	2800	5	25.1 - 23	37.1	9.1
73	-23°	2806	5	25.6 - 23	47.8	8.9
74	-23°	2803	5	25.7 - 23	36.1	8.9
75	-23°	2816	5	26.3 - 23	31.4	8.7
76	-23°	2826	5	27.0 - 23	16.1	9.5
77	-23°	2840	5	27.7 - 23	30.4	9.2
78	-23°	2835	5	27.5 - 23	38.1	9.4
79	-22°	1151	5	27.7 - 22	54.5	9.1
80	-23°	2854	5	28.8 - 23	0.2	9.3
81	-22°	1153	5	27.8 - 22	80.4	8.7

cards made out

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Thursday. Oct. 17. 1912.

B41088 short exp.

No.	Dist.	Class	Remark
82	2	J5	
83	2	J5	
84	6	K5	
85	4	A0	
86	4	G0	
87	2	J5	
88	1	J	
89	4	K5	
90	3	J5	
91	3	K	0, 8, 10.
92	5	J5	
93	2	J5	
94	4	J5	
95	7	K3	
96	5	J5	
97	2	A	
98	4	A2	
99	3	A2	
100	2	J5	
101	2	J5	
102	1	K	
103	2	K5	
104	4	J5	
105	2	J5	
106	2	J5	
107	3	J5	
108	6	J5	

82	-22°	1159	5	28.7	-22	43.5	9.3
83	-22°	1161	5	28.8	-22	47.7	9.5
84	-23°	2861	5	29.3	-23	36.4	8.3
85	-23°	2865	5	29.6	-23	32.1	8.5
86	-24°	3207	5	29.1	-24	25.8	9.2
87	-24°	3191	5	27.8	-24	20.5	8.6
88	-24°	3193	5	28.1	-24	49.8	9.1
89	-25°	2516	5	28.8	-25	23.7	8.8
90	-25°	2526	5	29.5	-25	37.9	8.7
91	-25°	2539	5	30.7	-25	49.4	7.5
92	-25°	2545	5	31.5	-25	54.4	8.1
93	-25°	2544	5	31.5	-25	13.6	9.0
94	-24°	3236	5	31.1	-24	41.8	8.4
95	-24°	3245	5	31.6	-24	47.5	8.0
96	-24°	3232	5	30.8	-24	4.5	8.3
97	-23°	2897	5	31.2	-23	58.4	9.6
98	-24°	3244	5	31.6	-24	6.5	8.7
99	-24°	3268	5	33.3	-24	9.5	9.1
100	-23°	2938	5	33.5	-23	52.4	8.9
101	-23°	2700	5	19.0	-23	56.2	9.3
102	-23°	2729	5	20.5	-23	41.5	9.6
103	-24°	3091	5	21.7	-24	2.7	9.3
104	-24°	3087	5	21.5	-24	28.1	8.3
105	-24°	3074	5	20.3	-24	48.1	9.0
106	-24°	3078	5	20.5	-24	55.5	9.3
107	-25°	2436	5	21.2	-25	14.1	8.8
108	-25°	2443	5	21.9	-25	9.5	8.6

cards made out

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Thursday Oct. 17, 1912.

B 41088 slant disp.

Nr.	Int.	Class	Remark
109	3	H0	
110	1	H0	
111	2	F5	
112	2	G	
113	1	G	
114	2	H0	
115	1	F5	Maybe Ma
116	1	G0	
117	3	G5	
118	5	H0	
119	2	A	
120	5	F0	
121	3	H0	
122	2	H0	
123	2	G5	
124	1	A	
125	3	G5	Another star partly superposed.
126	3	H0	
127	2	H0	
128	3	F5	
129	2	G	
130	3	H2	
Time: 10.12	131	4	F2
Oct. 18 1912 12.15	132	2	F
" H50	133	4	G5
	134	3	K0
	135	2	H0

109	−25°	2446	5	22.4	−25	14.4	8.8 ✓
110	−25°	2445	5	22.4	−25	27.4	9.2 ✓
111	−25°	2450	5	22.5	−25	24.3	9.6 ✓
112	−24°	3099	5	22.0	−24	46.4	9.3 ✓
113	−24°	3104	5	22.6	−24	55.5	9.2 ✓
114	−24°	3125	5	23.9	−24	31.1	8.6 ✓
115	−24°	3138	5	24.5	−24	9.5	9.0 ✓
116	−23°	2782	5	24.2	−23	43.1	9.5 ✓
117	−25°	2487	5	25.7	−25	4.5	9.0 ✓
118	−25°	2470	5	24.2	−25	23.8	8.6 ✓
119	−25°	2457	5	23.1	−25	52.1	9.5 ✓
120	−26°	2231	5	23.0	−26	16.2	8.9 ✓
121	−26°	2232	5	23.2	−26	50.5	8.3 ✓
122	−26°	2236	5	23.5	−26	36.0	8.8 ✓
123	−26°	2241	5	24.1	−26	27.6	8.8 ✓
124	−26°	2250	5	24.8	−26	16.7	9.7 ✓
125	−26°	2253	5	24.9	−26	28.2	8.8 ✓ −26° 2255 mag. 9.7 & superposed
126	−26°	2254	5	24.9	−26	16.2	8.7 ✓
127	−26°	2265	5	25.9	−26	16.7	9.0 ✓
128	−25°	2493	5	26.5	−25	49.0	8.9 ✓
129	−26°	2284	5	27.7	−26	23.7	9.0 ✓
130	−26°	2285	5	27.8	−26	20.5	8.2 ✓
131	−26°	2289	5	28.1	−26	38.8	8.4 ✓
132	−22°	1169	5	31.0	−22	58.2	9.0 ✓
133	−22°	1170	5	31.1	−22	55.5	8.5 ✓
134	−22°	1171	5	31.5	−22	50.1	8.5 ✓
135	−22°	1172	5	31.6	−22	26.1	9.3 ✓

cards made out

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Friday, Oct. 18, 1912.

B41088 short disp.

No.	Int.	Class	Remark
136	3	78	
137	2	110	
138	3	112	
139	1	18	
140	2	78	
141	3	150	
142	3	150	
143	4	145	
144	2	110	
145	6	110	
146	2	02	
147	2	75	
148	2	112	
149	3	05	
150	4	05	
151	3	72	
152	2	110	
153	6	139	
154	4	110	
155	2	10	
156	12	75	Changes due to confusion of numbers.
157	13	150	
158	10+	75	Classified by my trail or is this a faint star? Faint star
158a	5	75	mark all superposed on 158
159	5	01	Focus poor
160	3	75	The middle one of three stars
161	3	7	
162	2	75	

	136	-21°	12113	5	31.7	-21	42.6	9.0	J
	137	-21°	12114	5	32.0	-21	23.7	9.2	V
	138	-21°	12116	5	32.2	-21	20.3	9.0	J
	139	-21°	12118	5	32.5	-21	20.7	9.4	V
	140	-21°	12119	5	32.8	-21	16.2	9.2	V
	141	-21°	1221	5	33.5	-21	41.9	9.0	V
	142	-21°	1222	5	33.7	-21	22.4	9.5	J
	143	-21°	1223	5	33.7	-21	7.2	9.0	V
	144	-21°	1227	5	34.3	-21	3.6	9.1	J
	145	-21°	1229	5	34.5	-21	18.5	8.5	V
	146	-22°	1180	5	32.8	-22	23.8	9.3	V
S.Sm.	147	-22°	28863	5	33.4	-22	59.8	9.4	J
	148	-22°	1184	5	33.7	-22	54.8	9.0	V
	149	-22°	1185	5	34.1	-22	47.2	9.2	V
	150	-23°	29976	5	35.3	-23	5.9	8.6	V
	151	-22°	1191	5	34.9	-22	40.9	9.1	V
	152	-22°	1195	5	36.2	-22	33.7	9.0	V
	153	-22°	1199	5	36.8	-22	28.5	9.0	J
	154	-22°	1202	5	37.6	-22	51.1	8.0	V
	155	-22°	1204	5	38.0	-22	52.5	8.7	J
	156	-22°	1203	5	37.7	-22	45.1	9.4	J
	157	-22°	1205	5	38.0	-22	35.9	9.0	V
	158	-22°	1211	5	38.4	-22	30.0	4.0	V
	158a	-22°	1210	5	38.4	-22	28.4	6.9	J
	159	-22°	1217	5	38.8	-22	34.1	8.0	J
	160	-22°	1215	5	38.7	-22	55.0	9.0	V
	161	-23°	30000	5	36.9	-23	11.4	8.8	J
	162	-23°	29977	5	36.9	-23	24.5	9.5	V

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Friday, Oct. 18, 1912.

B41088 short disp.

No.	Int.	Class	Remark
163	3	Fo	
164	2	G5	
165	4	F8	
166	2	G5	
167	3	G5	
168	2	G5	
169	2	K0	
170	4	K0	
171	5	K0	
172	7	K0	
173	2	K0	
174	1	A	
175	3	G0	
176	2	F5	
177	3	G	Another star partly superposed.
178	4	F8	
179	2	B5	
180	2	B2	
181	4	A0	
182	2	B2	
183	4	F2	
184	3	A3	
185	2	A2	
186	5	A0	The following of two.
187	7	A3	
188	1	B	
189	1	G	

163	-23°	30142	5	37.6	-23	35.3	9.4	J
164	-23°	30181	5	37.5	-23	53.5	9.2	I
165	-23°	30186	5	38.5	-23	35.0	9.1	I
166	-23°	30141	5	38.7	-23	34.8	9.3	V
167	-23°	30145	5	38.8	-23	25.1	9.3	I
168	-23°	30143	5	39.3	-23	40.3	9.0	I
169	-23°	30140	5	39.1	-23	50.6	9.0	I
170	-23°	30155	5	40.1	-23	41.0	8.3	J
171	-23°	30157	5	40.2	-23	53.0	8.0	I
172	-23°	29969	5	34.9	-23	46.8	7.3	I
173	-23°	29962	5	34.5	-23	56.5	9.1	V
174	-24°	3308	5	35.6	-24	6.5	9.3	I
175	-25°	2564	5	32.9	-25	0.4	9.0	V
176	-24°	3314	5	35.8	-24	29.5	9.1	V
177	-24°	3319	5	36.0	-24	38.2	8.6	V
178	-24°	3335	5	36.6	-24	54.3	8.6	V
179	-24°	3339	5	36.8	-24	28.2	8.5	V
180	-24°	3340	5	36.9	-24	23.8	8.7	I
181	-22°	1081	5	14.4	-22	26.1	8.6	J
182	-22°	1082	5	14.5	-22	34.0	8.6	V
183	-22°	1089	5	16.0	-22	35.0	8.5	V
184	-21°	1156	5	16.6	-21	56.3	9.0	V
185	-22°	1098	5	17.3	-22	9.9	9.2	V
186	-22°	1097	5	17.2	-22	24.4	9.0	I
187	-22°	1099	5	17.5	-22	26.7	7.3	J
188	-22°	1101	5	18.0	-22	34.1	9.1	I
189	-22°	1103	5	18.5	-22	34.2	9.1	V

cards made out

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Friday, Oct. 18, 1912

B41085 short disp.

No.	Int.	Class	Remark
190	4	Fo	
191	2	Ko	
192	2	A	
193	3	Ho	
194	9	N	Burned out
195	4	Fo	
196	3	Ko	
197	2	G5	
198	4	Fo	
199	7	A2	
Line: 12.35	200	10+	G5 Classified from trail.
	201	7	Bq
10h 13m Saturday Apr. 19th	202	1	G0
v	203	1	G5
v	204	4	F5
v	205	2	K0
v	206	2	G5
v	207	2	K0
v	208	2	A2
v	209	10+	A
v	210	1	K0

(Cont. ~B.216)

190	-22°	1103 5	18.6 -22	30.4	8.8 V
191	-22°	1105 5	19.2 -22	39.6	9.0 V
192	-21°	1160 5	18.1 -21	56.8	9.3 V
193	-21°	1169 5	20.7 -21	47.6	8.8 V
194	-21°	1174 5	21.4 -21	30.0	6.1 V
195	-21°	1173 5	21.4 -21	2.5	8.3 V
196	-20°	1091 5	21.6 -20	55.8	8.2 V
197	-20°	1094 5	21.8 -20	59.4	9.1 V
198	-21°	1176 5	22.2 -21	15.7	8.8 V
199	-21°	1179 5	23.3 -21	9.7	7.7 V
200	-20°	1096 5	22.0 -20	52.7	3 V

Identified by AMS. Oct. 26, 1912
Checked by J.H.M. Nov. 18, 1912
cards made out by W.C.W.
Cards checked by E.R.B.

201	-20°	1147 5	33.5 -20	31.6	7.0 ✓
202	-21°	1209 5	30.3 -21	28.3	9.4 ✓
203	-20°	1124 5	29.4 -20	48.3	9.3 ✓
204	-20°	1119 5	27.7 -20	45.2	8.5 ✓
205	-20°	1118 5	26.9 -20	31.2	8.8 ✓
206	-20°	1113 5	26.4 -20	27.5	9.2 ✓
207	-20°	1108 5	26.1 -20	19.0	8.9 ✓
208	-20°	1106 5	25.2 -20	36.6	9.4 ✓
209	-20°	1105 5	24.9 -20	58.2	6.0 ✓
210	-20°	1101 5	23.1 -20	39.9	9.1 ✓

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Wednesday Oct. 23 1912.

T 38082

Time: 10.0 8.5

No	Int.	Class	Remark
1	2	F2	
2	2	G5	
3	1	K0	
4	2	G5	
5	2	A0	
6	4	F0	
7	3	F5	
8	3	F8	Partly superposed on 9.
9	8	B9	
10	1	A	
11	2	F8	
12	1	A5	Difficult
13	2	G5	
14	3	K5	
15	4	K0	
16	2	A0	
17	2	A3	
18	2	K0	
19	2	A0	
20	2	A0	
21	1	K0	
22	2	K0	
23	3	A0	
24	1	A	
25	2	F	Another star partly superposed? Yes.
26	3	K0	
27	2	F2	

1	+40°	676	2	59.7	+40	16.3	8.6	↑	↓
2	+40°	675	2	59.6	+40	44.3	8.3	↑	↓
3	+41°	624	3	1.3	+41	2.7	8.5	↑	↓
4	+40°	684	3	2.0	+40	37.2	7.8	↑	↓
5	+40°	687	3	2.9	+40	56.7	8.7	↑	↓
6	+40°	691	3	3.2	+40	53.5	8.2	^	↓
7	+40°	695	3	4.6	+40	54.3	8.2	↑	↓
8	+39°	736	3	4.7	+39	40.4	8.5	↑	↓
9	+39°	737	3	4.7	+39	33.7	7.5	↑	↓
10	+39°	738	3	5.3	+39	21.7	8.3	^	↓
11	+39°	748	3	8.6	+39	11.6	8.8	↑	↓
12	+39°	752	3	9.7	+39	38.0	8.9	↑	↓
13	+39°	770	3	13.7	+39	38.0	8.5	↑	↓
14	+39°	775	3	15.0	+39	31.7	7.0	↑	↓
15	+39°	778	3	15.5	+39	41.6	7.8	↑	↓
16	+39°	782	3	16.3	+39	57.2	8.8	↑	↓
17	+40°	744	3	16.7	+40	29.0	8.8	↑	↓
18	+40°	750	3	17.4	+40	45.8	8.5	↑	↓
19	+41°	686	3	18.4	+41	10.3	8.8	^	↓
20	+41°	692	3	20.7	+41	0.9	8.8	↑	↓
21	+40°	765	3	20.2	+40	40.5	8.5	↑	↓
22	+40°	763	3	19.4	+40	5.6	8.0	↑	↓
23	+41°	701	3	23.5	+41	0.8	8.9	↑	↓
24	+41°	709	3	24.7	+41	27.0	9.1	↑	↓
25	+40°	788	3	24.8	+40	19.6	8.8	↑	↓
26	+39°	816	3	25.0	+39	48.1	8.0	↑	↓
27	+39°	818	3	25.8	+39	52.1	8.6	↑	↓

mgn. 8.8 +40° 784 superpos'd

cards made out

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Wednesday Oct. 23, 1912.
I 38082

No	Int.	Class	Remark
28	2	Go	
29	2	M0	
30	1	A	
31	2	A0	
32	4	F2	
33	2	A0	
34	2	G5	
35	1	M0	
36	2	M0	
37	4	F2	
38	2	G	
39	2	A2	
40	3	A2	
41	2	F	
Time 10.14	42	1	A
	43		
	44		
	45		
	46		

43	6	A0					
44	7	F0					
45	5	F0					
46	1	K0					

Cent. B 130, 144

28	+39°	801	3	21.5	+39	8,6	8.0 1 J
29	+38°	743	3	24.5	+38	48.8	7.9 1 V
30	+38°	717	3	15.8	+38	33.7	8.8 1 J
31	+38°	722	3	16.9	+38	33.8	8.0 1 J
32	+37°	768	3	16.5	+37	44.5	8.0 1 J
33	+37°	767	3	16.4	+37	15.1	8.3 1 V
34	+37°	765	3	15.9	+37	24.4	7.8 1 J
35	+37°	759	3	13.4	+37	53.3	7.1 1 J
36	+37°	760	3	13.6	+37	7.8	7.7 1 V
37	+36°	689	3	17.1	+36	29.3	8.0 1 J
38	+36°	695	3	19.4	+36	36.6	8.4 1 V
39	+36°	697	3	20.6	+36	55.3	8.0 1 J
40	+36°	710	3	22.3	+36	49.4	8.6 1 V
41	+36°	713	3	22.6	+36	58.7	8.2 1 V
42	+37°	781	3	22.7	+37	0.9	8.7 1 V

Identified by ANC Oct. 30, 1912
Checked Nov. 4, 1912. DSW.
cards made out by M. C. W.

✓	43	+37°	794	3	25.8	+37	32	7.5
/	44	+38°	749	3	25.6	+38	6	7.0
✓	45	+38°	747	3	25.3	+38	19	7.5
✓	46	+40°	806	3	29.4	+40	54	8.3

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Wednesday, Oct. 23 1912

I 38081

Time: 10.24

No.	Int.	Class	Remark
1	2	Fo	
2	3	F2	
3	2	G5	
4	1	G5	
5	5	A3	
6	5	F8	
7	2	A2	
8	2	Go	
9	4	G5	
10	3	F8	Another star partly superposed?
11	2	A3	
12	1	A3	
13	3	Ao	
14	2	Fo	
15	2	A	
16	1	K	
17	2	A	
18	5	B8	
19	2	F5	
20	4	G5	
21	2	F8	
22	2	F8	
23	4	Fo	
24	2	G5	
25	2	Ao	
26	2	A2	
27	5	A3	

1	+39°	875	3	42.2	+39	18.1	8.2	✓
2	+37°	830	3	38.5	+37	53.6	7.7	✓
3	~~+38°~~ +38°	~~806~~ 806	~~3~~ 3	~~37.6~~ 37.6	~~+38~~ +38	~~43.4~~ 41.7	~~8.8~~ 9.1	✓ mag. 8.8 +38° 805 Superposed
4	+38°	808	3	38.9	+38	55.6	8.3	✓
5	+40°	842	3	39.2	+40	13.6	7.3	✓
6	+40°	835	3	38.3	+40	4.2	7.2	✓
7	+40°	834	3	38.3	+40	41.7	8.4	✓
8	+41°	752	3	37.5	+41	8.2	8.0	✓
9	+41°	750	3	37.1	+41	1.2	8.2	✓
10	+41°	749	3	37.1	+41	24.5	8.2	✓ mag. 8.5 +41° 748 Superposed
11	+41°	775	3	45.4	+41	29.9	8.1	✓
12	+41°	774	3	46.2	+41	34.7	8.5	✓
13	+39°	922	3	55.9	+39	22.0	8.4	✓
14	+39°	921	3	55.7	+39	53.8	7.5	✓
15	+40°	876	3	52.1	+40	8.8	8.0	✓
16	+40°	855	3	44.8	+40	53.3	8.2	✓
17	+41°	761	3	40.3	+41	54.1	8.5	✓
18	+42°	824	3	38.5	+42	25.2	7.8	✓
19	+40°	831	3	36.6	+40	2.3	8.5	✓
20	+39°	852	3	35.4	+39	37.4	7.0	✓
21	+40°	828	3	35.1	+40	25.5	7.8	✓
22	+40°	825	3	33.8	+40	26.3	8.5	✓
23	+40°	821	3	33.4	+40	31.7	7.8	✓
24	+40°	817	3	32.3	+40	24.4	8.5	✓
25	+39°	814	3	32.1	+39	13.7	8.5	✓
26	+38°	786	3	32.3	+38	56.7	8.8	✓
27	+38°	782	3	31.3	+38	38.8	7.5	✓

cards made out

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Wednesday, Oct. 23, 1912.

I 38081

No.	Int.	Class	Remark
28	4	A0	
29	2	A2	
30	2	K0	
31	2	K0	
32	1	K5	
33	2	A0	
34	1	A2	
35	2	K5	
36	4	K0	
37	3	K	
38	1	K	Partly superposed on a brighter star.
39	1	G5	
June 10.31 40	1	G	

28	+38°	771	3	29.5	+38	14.0	8.5	
29	+38°	766	3	28.8	+38	42.5	8.5	
30	+37°	860	3	28.2	+37	56.9	8.2	
31	+38°	788	3	32.5	+38	21.8	8.0	
32	+38°	792	3	33.3	+38	4.8	9.0	
33	+38°	759	3	26.2	+38	48.6	8.7	
34	+38°	751	3	26.0	+38	40.5	8.5	
35	+38°	743	3	24.5	+38	48.8	7.9	+38° 742 superposed.
36	+40°	796	3	27.8	+40	2.7	8.0	
37	+41°	728	3	29.7	+41	13.7	8.4	
38	+40°	806	3	29.4	+40	53.6	8.3	
39	+37°	842	3	45.9	+37	53.8	8.0	
40	+36°	764	3	41.9	+36	59.9	8.7	

Identified by J.C.M. Nov. 1, 1912.
Checked by AMC. Nov. 9, 1912
cards made out by M. C. W.
Cards checked by E.C.W.

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Wednesday Oct 23 1912.

Time 10.36

I 38086

No	Int.	Class	Remark
1	3	H0	Partly superposed on a brighter star.
2	3	H0	
3	1	K0	
4	2	K0	
5	3	A0	
6	4	A0	
7	3	A2	
8	3	F0	
9	5	F0	
10	6	G0	
11	2	F E.	
12	1		Faint bright line. Defect.
13	2	A3	
14	2	A0	
15	2	H0	
16	3	A2	
17	2	A2	
18	2	A5	
19	3	A0	
20	1	F2	
21	2	K0	
22	2	A2	
23	1	A	
24	1	G5	
25	3	A3	
26	3	A0	
27	3	F5	

1	+40°	520	2	18.4	+40	17.1	7.9	v
2	+40°	524	2	19.0	+40	35.7	7.8	ı
3	+40°	523	2	19.0	+40	56.5	8.5	ı
4	+41°	464	2	18.6	+41	31.0	8.5	ı
5	+41°	466	2	19.4	+41	4.9	8.7	J
6	+41°	467	2	19.6	+41	16.6	8.5	ı
7	+42°	525	2	19.2	+42	8.5	8.6	ı
8	+42°	523	2	19.2	+42	35.6	8.5	ı
9	+42°	530	2	21.0	+42	31.9	8.1	V
10	+43°	507	2	21.4	+43	1.6	7.8	ı
11	+43°	504	2	20.6	+43	30.1	8.0	ı
12								
13	+42°	~~541~~	2	~~23.2~~ ~~26.3~~	+42	~~30.6~~ ~~55.1~~	~~7.2~~ ~~8.4~~	J
14	+42°	542	2	23.3	+42	5.0	9.0	J
15	+41°	476	2	22.8	+41	44.2	8.0	v
16	+41°	475	2	22.5	+41	12.7	8.3	v
17	+40°	538	2	21.7	+40	45.5	8.7	v
18	+40°	537	2	21.7	+40	3.0	8.3	v
19	+38°	499	2	23.2	+38	28.1	8.9	v
20	+40°	553	2	27.0	+40	54.3	8.7	v
21	+40°	554	2	27.4	+40	50.2	8.6	v
22	+40°	556	2	27.5	+40	24.6	9.0	v
23	+40°	557	2	27.6	+40	37.7	9.0	v
24	+40°	561	2	28.7	+40	7.9	9.0	v
25	+41°	500	2	29.2	+41	29.9	9.1	1+41° 501 mags. 9.0 superposed
26	+43°	~~525~~ 534	2	27.8	+43	0.7	8.7	v
27	+43°	536	2	28.1	+43	19.1	8.4	v

Cards made out

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Wednesday, Oct. 23, 1912.

I 38086

No	Int.	Class	Remark
28	2	G5	
29	2	K5	Partly superposed on 28.
30	2	K2	
31	2	A0	
32	2	A0	
33	4	B9	
34	3	G5	
35	4	K0	
36	2	K3	
37	2	G0	
38	3	G0	
39	7	A0	
40	2	K0	
41	1	F5	
42	2	A3	
43	3	A2	
44	2	K2	
45	1	K0	
46	2	A0	
47	5	A0	
48	5	B9	
49	3	F8	
50	2	G5	
51	1	K2	
52	2	G	
53	2	K	Partly superposed on 52.
54	2	F5	

28	+42°	561	2	29.5	+42	40.4	8.5
29	+42°	563	2	29.6	+42	36.3	8.1
30	+42°	565	2	30.1	+42	10.9	8.5
31	+42°	566	2	30.5	+42	21.7	8.8
32	+41°	507	2	31.1	+41	51.6	9.0
33	+41°	514	2	32.2	+41	58.1	8.0
34	+41°	517	2	33.0	+41	32.9	8.3
35	+40°	570	2	32.8	+40	47.2	7.2
36	+40°	573	2	33.2	+40	37.8	8.6
37	+40°	567	2	31.4	+40	42.3	8.7
38	+40°	568	2	32.3	+40	16.5	8.3
39	+40°	577	2	34.5	+40	52.7	7.1
40	+41°	525	2	34.2	+41	14.5	8.5
41	+41°	527	2	35.0	+41	13.5	8.9
42	+41°	528	2	35.8	+41	33.9	8.5
43	+41°	530	2	36.3	+41	55.1	8.4
44	+41°	532	2	36.7	+41	18.1	8.2
45	+40°	590	2	36.9	+40	50.6	8.8
46	+40°	595	2	37.8	+40	55.4	9.0
47	+40°	589	2	36.6	+40	18.3	7.7
48	+39°	628	2	36.8	+39	58.4	7.8
49	+40°	593	2	37.6	+40	0.4	8.2
50	+39°	630	2	36.9	+39	14.0	8.5
51	+39°	631	2	37.1	+39	11.7	8.5)
52	+38°	552	2	37.7	+38	43.2	8.6
53	+38°	581	2	37.7	+38	39.6	8.5
54	+38°	557	2	38.7	+38	54.2	8.7

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Wednesday, Oct. 23, 1912.
I 38086

No.	Int.	Class	Remark
55	4	F2	
56	2	F2	
57	3	F0	
58	2	G5	
59	8	A0	
60	2	A3	
See 119	~~1~~	~~F0~~	
62	4	F0	
63	1	F	
64	4	A2	
65	9	A0	
66	2	F5	
67	2	A2	
68	7	A0	
69	3	F0	
70	3	G5	
71	2	A0	
72	5	F0 G	
73	1	A	
74	2	A	
75	2	A5	
76	2	F0	
77	2	F	
78	3	F5	
79	3	F0	
80	3	F8	
81	2	F2	

55	+39°	634	2i	38.2	+39	17.1	8.2 J
56	+40°	596	2i	38.2	+40	15.8	8.6 J
57	+40°	597	2i	38.3	+40	23.4	8.8 J
58	+41°	541	2i	38.6	+41	13.6	8.9 J
59	+41°	538	2i	37.8	+41	33.8	7.5 J
60	+41°	543	2i	39.3	+41	46.7	8.7 J
~~61~~							
62	+41°	546	2i	40.0	+41	20.0	8.0 J
63	+41°	547	2i	40.1	+41	12.2	8.7 J
64	+41°	550	2i	41.2	+41	20.5	8.5 J
65	+41°	552	2i	41.6	+41	8.6	8.6 J
66	+40°	612	2i	41.2	+40	41.4	9.0 J
67	+40°	690	2i	41.0	+40	13.6	8.3 J
68	+39°	642	2i	40.1	+39	52.6	7.8 J
69	+39°	646	2i	40.7	+39	18.9	8.4 J
70	+39°	650	2i	42.6	+39	32.8	7.8 J
71	+41°	653	2i	42.1	+41	12.6	9.1 J
72	+41°	656	2i	43.0	+41	25.4	7.2 J
73	+41°	657	2i	43.5	+41	22.4	9.1 J
74	+40°	616	2i	42.9	+40	4.7	9.0 J
75	+39°	659	2	44.5	+39	28.0	8.8 J
76	+39°	661	2	44.9	+39	59.3	8.3 J
77	+40°	618	2i	44.1	+40	3.9	8.8 J
78	+38°	594	2i	42.6	+38	16.3	8.6 J
79	+38°	584	2i	45.7	+38	50.3	8.3 J
80	+40°	622	2i	46.7	+40	34.8	8.7 J
81	+40°	624	2	47.0	+40	52.1	8.6 J

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Wednesday. Oct. 23, 1912.

I 38086

No.	Int.	Class	Remark
82	3	Ao	
83	3	F5	
84	2	G5	
85	3	Ao	
86	3	F0	
87	3	F5	
88	3	F8	
89	4	G5	
90	4	K8	
91	3	F0	
92	2	K0	
93	1	A	Another star partly superposed.
94	2	K0	
95	2	K0	
96	3	F0	
97	2	K2	
98	2	A5	
99	2	Ao	Partly superposed on a brighter star.
100	4	A	E.
101	3	G5	
102	3	Ao	
103	2	F5	
104	3	K0	
105	2	A	E.
106	2	A	E.
107	2	A	
108	2	A	

82	+40°	625	2i	47.1	+40	52.4	8.9	V
83	+40°	628	2i	48.4	+40	23.1	8.7	V
84	+39°	671	2i	47.8	+39	39.9	8.3	V
85	+39°	677	2i	49.0	+39	17.3	8.5	V
86	+38°	600	2i	49.2	+38	54.3	8.5	V
87	+37°	662	2i	46.9	+37	59.8	8.2	V
88	+38°	590	2i	47.5	+38	6.9	8.7	V
89	+37°	671	2i	49.7	+37	49.0	7.6	V
90	+38°	601	2i	49.5	+38	12.5	8.4	V
91	+38°	609	2i	51.2	+38	59.9	8.5	V
92	+38°	611	2i	51.6	+38	41.1	8.0	V
93	+38°	606	2i	50.8	+38	36.6	8.8	V
94	+37°	659	2i	45.5	+37	9.0	7.8	V
95	+37°	660	2i	46.3	+37	24.7	9.0	V
96	+41°	561	2i	45.3	+41	33.0	8.5	V
97	+42°	651	2i	45.7	+42	8.1	8.6	V
98	+42°	650	2i	45.5	+42	38.1	8.8	V
99	+42°	668	2i	49.4	+42	50.5	8.6	V
100	+43°	626	2i	54.4	+43	32.8	7.8	V
101	+41°	593	2i	52.8	+41	23.4	8.3	V
102	+40°	641	2i	50.5	+40	14.7	8.4	V
103	+40°	642	2i	50.9	+40	33.0	8.8	V
104	+43°	609	2i	49.4	+43	21.6	8.0	V
105	+44°	600	2i	47.2	+44	31.7	8.8	V
106	+44°	601	2i	47.8	+44	10.8	9.1	V
107	+43°	570	2i	36.4	+43	33.6	9.1	V
108	+43°	576	2i	37.7	+43	16.7	8.8	V

cards made out

mag. 6.5 +42°667 Superposed

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Wednesday, Oct. 23, 1912.

I 38086

No.	Fat.	Class	Remark
109	2	A3	
110	3	A5	E.
111	3	A3	E.
112	2	F5	Near a bright star.
113	2	A5	
114	1	F	
115	2	A	Another star partly superposed.
116	1	A	" " superposed.
117	2	A0	
118	1	G	
119	1	F0	
120	1	Mb	
121	1	Ma	
122	1	K5	
123	2	K0	
124	3	B9	
125	1	F	
126	1	Ma	
127	2	G5	
128	3	K0	E.
129	2	F8	
130	2	K0	

Time: 11.07

Time: 11.12

cmb. 120, 148

109	+44°	577	2i	38.0	+44	39.6	8.9 J
110	+44°	580	2i	39.8	+44	39.0	8.0 J
111	+44°	589	2i	41.5	+44	32.9	8.6 J
112	+44°	591	2i	42.2	+44	27.2	7.8 J
113	+43°	586	2i	41.2	+43	45.1	8.8 J
114	+43°	583	2i	40.5	+43	12.4	8.7 J
115	+42°	~~594~~	~~2~~	~~38~~	+42	~~49.5~~	~~8.6~~ 8.8 +43° 596 superposed
		~~590~~	~~2~~	~~38~~	+42	~~48.5~~	~~8.6~~ 9.0 mag. 9.0
116	+42°	592	2i	31.7	+42	14.8	8.8 +42° 593 superposed
117	+42°	578	2i	31.9	+42	3.2	8.7 J
118	+40°	563	2i	29.9	+40	42.9	8.9 J
119	+42°	633	2i	39.3	+42	7.5	8.8 J
120	+39°	596	2i	30.9	+39	13.7	8.4 J
121	+38°	539	2i	32.6	+38	55.6	8.7 J
122	+38°	542	2i	32.9	+38	40.3	8.6 J
123	+37°	604	2i	33.3	+37	59.1	8.1 J
124	+36°	556	2i	38.6	+36	52.2	9.0 J
125	+37°	640	2	39.9	+37	3.4	8.3 J
126	+38°	513	2	27.4	+38	17.7	8.8 J
127	+38°	508	2i	26.3	+38	32.5	8.5 J
128	+36°	521	2	27.0	+36	26.9	7.0 J
129	+37°	635	2	38.5	+37	49.8	8.2 J
130	+40°	653	2	53.4	+40	39.9	8.5 J

(The spectrum is a P.C.)

Identified by AMC Nov. 10, 1912

Checked by J.C.M. Nov. 20, 1912.

cards made out by M. C. W.

Cards checked by E.R.B.

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Thursday, Oct. 24, 1918

I 38070

Time: 10.09

No	Int.	Class	Remarks
1	2	g_5	
2	2	J_0	
3	4	g_5	
4	3	J_0	
5	1	f	
6	1	g	
7	2	K_2	
8	1	J_0	
9	2	f_2	
10	2	a_5	
11	1	g_5	
12	3	f_2	
13	1'	J_1	
14	3	g_0	
15	4	g_5	
16	2	f_0	
17	2	f_5	
18	2	a_3	
19	2	g_5	
20	4	f_2	
21	2	f_8	
22	3	J_0	
23	2	K_0	
24	5	g_5	
25	2	g_0	
26	3	f_0	
27	4	a_3	

1	+22°	129	0	41.8	+22	20.4	8.1	
2	+20°	109	0	41.4	+20	45.9	8.5	
3	+20°	111	0	42.9	+20	22.7	7.5	
4	+19°	129	0	41.1	+19	25.5	8.0	
5	+17°	118	0	43.7	+17	56.2	9.2	
6	+18°	111	0	43.6	+18	1.1	8.6	
7	+18°	114	0	45.1	+18	9.8	8.5	
8	+17°	126	0	49.5	+17	27.6	9.0	
9	+19°	153	0	49.6	+19	37.6	8.8	
10	+19°	155	0	50.1	+19	18.3	9.0	
11	+18°	130	0	50.7	+18	58.3	8.9	
12	+20°	130	0	50.2	+20	13.8	8.5	
13	+19°	158	0	51.1	+19	47.7	8.6	
14	+19°	162	0	52.0	+19	51.6	8.5	
15	+19°	167	0	52.9	+19	29.8	8.5	
16	+19°	174	0	55.4	+19	48.0	8.8	
17	+19°	177	0	56.2	+19	59.0	8.8	
18	+21°	138	0	55.7	+21	1.2	8.7	
19	+20°	147	0	56.8	+20	43.5	8.5	
20	+20°	158	0	58.1	+20	11.0	8.0	
21	+21°	144	0	58.5	+21	47.7	8.3	
22	+22°	174	0	58.9	+22	27.6	8.0	
23	+22°	176	0	59.8	+22	12.1	8.4	
24	+21°	150	1	0.4	+21	11.2	7.5	
25	+21°	151	1	0.6	+21	4.4	8.5	
26	+21°	152	1	1.2	+21	34.9	8.4	
27	+21°	156	1	1.6	+21	48.3	8.4	

Cards made out

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Thursday, Oct. 24, 1912.
I 38070

	Nr.	Int.	Class	Remark
	28	1	Md	Hδbr. = 10 Hγ = 2
	29	2	F5	
	30	3	K0	
	31	3	F5	
	32	2	A3	
	33	2	K0	
	34	2	F5	
	35	2	K0	
	36	3	A0	
June: 10.21	37	3	G0	
	38			
May 17, 1915	38	7	K0	
Jan. 18, 1916				
	39	7	B9	
	40	1	K2	
	41	2	B5	
	42	1	K2	
	43	5	F5	
	44	2	F5	

28	Approx. 1855	1		4.4	+21	27		1 Plate 39 on Cepheid
29	+19°	195	1	3.6	+19	7.5	8.7	
30	+22°	149	0	48.0	+22	21.1	8.1	
31	+23°	127	0	48.0	+23	2.3	8.1	
32	+23°	130	0	48.7	+23	9.8	9.0	
33	+20°	122	0	46.3	+20	13.4	8.8	
34	+21°	127	0	50.9	+21	48.4	8.5	
35	+22°	160	0	52.3	+22	38.0	9.3	
36	+22°	168	0	55.7	+22	16.0	8.8	
37	+22°	170	0	56.8	+22	59.1	8.5	

Identified by J.C.-S.M.
Checked by Amy. Nov. 10, 1912.
cards made out by M.C.W.
Cards ~~on~~ checked by E.K.B.

38	+21° 111 ~~0 43.~~		0	43.9	+21	50	7.0	

Same as No. 43 on I 19788.
Card made out by A.J.C.

✓	39	+22° 134	0	43.4	+22	4	8.0	42 on I 19785
✓	40	+23° 103	0	38.6	+23	31	8.7	15 on I 37315
✓	41	+22° 121	0	39.3	+22	28	8.0	30 on I 37405 3
✓	42	+21° 86	0	37.4	+21	32	8.3	
✓	43	+18 149	0	55.8	+18	38	7.8	122 on I 37412
✓	44	+17 136	0	50.3	+17	22	9.0	113 " "

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Tuesday Oct. 29. 1912.

Time 10.39

I 37525 (for faint stars).

No.	Int.	Class	Remark
1	3	F2	
2	2	A2	
3	2	F5	
4	3	G5	
5	3	A3	
6	3	G	Partly superposed on a brighter star.
7	3	K0	
8	3	F8	
9	3	G0	
10	2	K3	
11	2	F5	
12	3	K0	
13	2	K3	
14	2	A2	
15	3	A0	
16	2	K0	
17	2	G	
18	3	F5	E.
19	2	G	
20	3	G5	
21	2	F8	
22	1	A	Partly superposed on 21.
23	2	K0	
24	2	G0	
25	2	F2	
26	1	A	
27	2	A	

1	+28°	750	4 5	59.0	+28	11.4	8.3
2	+28°	753	4 5	0.2	+28	54.7	8.7
3	+28°	754	5	0.5	+28	57.4	8.7
4	+29°	820	5	0.1	+29	28.7	8.9
5	+29°	821	5	0.2	+29	46.4	8.5
6	Approx	1855	5	0.5	+29	36	
7	+30°	808	5	1.8	+30	6.5	8.6
8	+29°	829	5	1.9	+29	36.1	8.4
9	+30°	818	5	3.2	+30	3.0	8.7
10	+30°	820	5	3.3	+30	15.3	9.0
11	+30°	822	5	3.5	+30	50.0	9.0
12	+30°	825	5	4.1	+30	46.6	8.6
13	+29°	837	5	4.1	+29	48.4	8.9
14	+29°	835	5	3.6	+29	10.1	9.0
15	+28°	759	5	3.4	+28	46.0	8.7
16	+27°	737	5	3.5	+27	24.8	8.8
17	+27°	738	5	3.9	+27	35.6	9.1
18	+26°	797	5	3.6	+26	5.9	8.3
19	+28°	761	5	4.8	+28	3.4	8.8
20	+29°	847	5	6.6	+29	17.9	8.8
21	+29°	849	5	7.1	+29	11.3	8.8
22	+28°	767	5	7.1	+28	57.3	9.0
23	+28°	769	5	7.4	+28	0.9	8.3
24	+27°	743	5	7.3	+27	40.5	9.0
25	+27°	746	5	8.2	+27	36.1	8.6
26	+28°	774	5	9.5	+28	44.3	8.7
27	+28°	776	5	10.4	+28	37.6	8.9

cards made out

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Tuesday Oct. 29. 1912.

I 37525

hr	Int.	Class	Remark
28	1	fy	
29	2	fy5	
30	10	A0	
31	2	F½	
32	2	F5	
33	1	A	
34	1	F'	
35	1	A	
36	2	F0	
37	3	A0	
38	2	F A5	
39	3	F½	
40	3	F0	
41	2	F	
42	2	F8	
43	4	F38	
44	4	F38	
45	3	F3?	Almost cont.
46	2	F3	Focus poor.
47	2	fy5	
48	2	F0	
49	4	F5	
50	1	fy	
51	2	A3	
52	3	fy5	
53	4	A5	
54	3	A2	

28	+28°	777	5	10.7	+28	2.2	9.0	✓
29	+28°	779	5	11.6	+28	44.5	8.4	✓
30	+29°	869	5	12.0	+29	25.4	6.0	✓
31	+28°	785	5	13.8	+28	56.6	8.0	✓
32	+28°	783	5	13.6	+28	38.0	8.6	✓
33	+28°	782	5	13.5	+28	19.4	8.6	✓
34	+29°	878	5	14.4	+29	32.2	8.8	✓
35	+27°	769	5	16.5	+27	49.6	8.9	✓
36	+27°	778	5	20.4	+27	43.3	8.7	✓
37	+26	826	5	20.7	+26	49.1	8.3	✓
38	+26°	829	5	22.0	+26	28.0	8.5	✓
39	+26°	834	5	22.9	+26	34.2	7.7	✓
40	+25°	852	5	24.0	+25	47.7	8.0	✓
41	+26°	858	5	26.0	+26	27.2	8.8	✓
42	+28°	818	5	23.8	+28	13.8	8.5	✓
43	+27°	798	5	25.5	+27	56.7	8.0	✓
44	+27°	811	5	27.5	+27	48.8	8.5	✓
45	+28°	836	5	29.8	+28	22.3	8.2	✓
46	+27°	828	5	30.6	+27	41.6	8.8	✓
47	+29°	921	5	22.6	+29	19.5	8.5	✓
48	+28°	813	5	22.7	+28	54.0	8.6	✓
49	+29°	923	5	23.0	+29	5.2	7.8	✓
50	+29°	924	5	23.3	+29	17.8	8.6	✓
51	+29°	941	5	27.8	+29	12.8	8.7	✓
52	+30°	949	5	27.1	+30	29.0	8.2	✓
53	+29°	806	4	57.0	+29	34.0	8.0	✓
54	+29°	809	4	57.8	+29	52.1	8.5	✓

cards made out

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Tuesday, Oct. 29, 1912.

I 37535

No.	Int.	Class	Remark
55	3	A	
56	3	A0	
57	3	A3	
58	2	A	
59	4	A3	
60	2	K2	
61	2	F	
62	3	A0	
63	4	F8	
64	1	A	
65	4	F3	
66	2	A0	
67	2	A	
68	3	F3	
69	4	A5	
70	2	K5	
71	2	A	
72	2	B9	
73	2	F8	
74	2	K0	The n. p. of two.
75	3	A0	
76	1	A	
77	2	A0	
78	2	F2	
79	2	A	
80	2	F	
81	3	A0	

55	+30°	790	4	58.3	+30	25.8	9.0	✓
56	+30°	796	4	59.2	+30	14.8	8.8	✓
57	+30°	794	4	59.0	+30	59.1	8.5	✓
58	+31°	878	5	2.7	+31	19.0	9.3	✓
59	+31°	886	5	4.2	+31	16.8	8.5	✓
60	+31°	888	5	4.6	+31	23.6	8.7	✓
61	+31°	891	5	4.8	+31	48.0	9.0	✓
62	+31°	894	5	5.2	+31	31.5	8.5	✓
63	+31°	898	5	5.6	+31	33.7	8.2	✓
64	+31°	901	5	6.1	+31	37.4	8.7	✓
65	+31°	905	5	6.7	+31	38.3	8.3	✓
66	+30°	829	5	6.8	+30	55.5	9.1	✓
67	+30°	826	5	4.7	+30	35.0	9.1	✓
68	+30°	835	5	5.8	+30	24.1	8.8	✓
69	+31°	910	5	7.6	+31	22.5	8.2	✓
70	+31°	914	5	8.1	+31	39.5	8.0	✓
71	+31°	911	5	7.8	+31	55.6	8.8	✓
72	+30°	846	5	8.4	+30	39.7	9.1	✓
73	+30°	849	5	9.0	+30	46.2	8.8	✓
74	+30°	851	5	9.2	+30	14.3	8.7	✓
75	+29°	860	5	9.6	+29	33.3	8.7	✓
76	+30°	852	5	9.7	+30	12.8	9.1	✓
77	+30°	854	5	10.0	+30	50.8	8.8	✓
78	+30°	860	5	10.7	+30	20.8	9.0	✓
79	+30°	862	5	11.5	+30	53.4	8.8	✓
80	+31°	935	5	12.1	+31	19.0	9.1	✓
81	+31°	948	5	13.8	+31	0.4	8.5	✓

cards made out

+31° 947 superposed 9.0 magn.

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Tuesday Oct. 29. 1913.

I 37525

No.	Int.	Class	Remark
82	1	K	
83	2	F5	
84	3	A	F & F' the only lines seen distinctly. Maybe H3.
85	2	Cont.	No lines seen distinctly.
86	2	A0	
87	3	A	
88	2	A	Nearly all same found on 87.
89	2	F5	
90	1	K5	
91	2	A2	
92	1	K4	
93	2	K0	
94	1	K0	
95	2	A0	
96	2	F8	
97	2	K0	
98	2	F0	
99	3	A2	
100	2	A	
101	4	G0	E.
102	3	G5	
103	1	G5	
104	1	K0	
105	2	A	Lines indistinct.
106	2	A0	
107	2	A2	
108	2	A	

82	+30°	876	5	15.3	+30	26.9	8.5
83	+30°	873	5	15.2	+30	3.2	8.9
84	+30°	882	5	16.0	+30	1.7	8.5
85	+29°	886	5	16.1	+29	28.6	8.4
86	+30°	888	5	16.5	+30	12.7	8.5
87	+30°	885	5	16.3	+30	33.6	9.0
88	+30°	887	5	16.3	+30	32.9	9.0
89	+30°	892	5	17.0	+30	12.4	8.5
90	+30°	894	5	17.5	+30	19.8	8.5
91	+30°	897	5	17.6	+30	9.7	9.0
92	+29°	897	5	17.9	+29	47.4	8.0
93	+30°	906	5	18.9	+30	31.1	8.3
94	+30°	912	5	20.5	+30	28.4	8.5
95	+30°	913	5	20.8	+30	19.8	8.7
96	+30°	917	5	21.4	+30	55.2	8.6
97	+31°	998	5	22.2	+31	23.6	8.3
98	+31°	1013	5	25.5	+31	31.9	9.0
99	+32°	1048	5	26.9	+32	14.0	8.7
100	+30°	944	5	27.2	+30	30.1 29.9	8.2
101	+32°	1059	5	29.2	+32	23.4	7.7
102	+32°	1058	5	29.2	+32	35.0	8.0
103	+30°	901	5	18.0	+30	57.1	8.8
104	+30°	902	5	18.2	+30	45.7	8.6
105	+31°	973	5	18.1	+31	16.0	8.3
106	+31°	972	5	18.0	+31	57.6	9.0
107	+31°	974	5	18.3	+31	55.2	8.8
108	+32°	985	5	17.4	+32	25.1	8.8

cards made out

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Tuesday, Oct. 29, 1912.
I 87525

	No	Sect.	Class	Remarks
	109	2	A	
	110	1	F0	
	111	2	F0	
	112	2	G	
	113	3	A0	
11.04	114	2	F2	
11.31	115	2	F5	
	116	4	F5	Line H appears faint. Comp.?
	117	2	G5	
	118	4	A3	Another star partly superposed.
	119	4	G5	E.
	120	4	K0	E.
	121	5	F5	
	122	4	A	
	123	5	A	E.
	124	5	A	Lines indistinct.
	125	3	G	
	126	5	K0	
Virac; 11.36	127	3	F2	E.
	128	4	B2	Another spectrum prec. also B
	129	8	A	Completely superposed
	130			

cont. 13K, 30

109	+32°	982	5	16.7	+32	40.2	9.0	✓
110	+32°	973	5	15.3	+32	33.9	8.8	✓
111	+33°	1071	5	21.7	+33	9.8	8.6	✓
112	+32°	1016	5	22.2	+32	21.0	9.0	✓
113	+32°	1025	5	23.5	+32	33.0	8.4	✓
114	+31°	1001	5	23.3	+31	55.0	7.6	✓
115	+31°	992	5	21.2	+31	23.5	7.1	✓
116	+30°	970	5	30.7	+30	0.0	8.2	✓
117	+29°	949	5	30.2	+29	44.7	8.3	✓
118	+29°	958	5	32.7	+29	12.9	8.7	✓
119	+28°	856	5	33.3	+28	55.2	8.2	✓
120	+27°	839	5	32.9	+27	41.3	8.4	✓
121	+27°	833	5	31.6	+27	42.0	8.2	✓
122	+27°	832	5	31.4	+27	21.5	8.4	✓
123	+26°	902	5	32.1	+26	57.6	8.6	✓
124	+26°	903	5	32.6	+26	31.9	8.0	✓
125	+26°	879	5	29.2	+26	49.7	8.9	✓
126	+26°	864	5	27.0	+26	10.2	8.4	✓
127	+34°	1004	5	11.3	+34	6.7	7.9	✓

mags. 8.7

+29° 960 superposed

Identified by J. C. M. Nov. 20, 1912.
Checked by AMC Nov. 25, 1912
cards made out by M. C. W.
Cards checked by C. H. B.

✓	128	+26° 841	5-	23.8	+26	38	8.2	12 on	D36897
✓	129	+29 953	5-	32.1	+29	04	7.0	25 "	"
✓	130	+29 954	5-	32.1	+29	25	7.5		

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Tuesday, Oct. 29. 1918

Time: 11.38

I 380 33

Nr.	Int.	Class	Remark
1	2	Fz	
2	1	Gy	
3	1	Fk	
4	2	Fko	
5	3	Fko	
6	4	Ao	
7	3	Gy5	
8	5	Fko	
9	2	Fk2	
10	6	Fo	
11	10	Fz	
12	4	Fko	
13	2	Fk	
14	1	Fk	
15	3	Fko	
16	3	Fk2	
17	5	Fk2	
18	4	A5	
19	7	Gy5	
20	1	K	
21	3	Fk	
22	3	Gyo	
23	7	A2	
24	5	Fk	
25	2	Fko	
26	2	Gy5	
27	2	Fko	

1	+7°	34′	0″	12.4	+7	43.8	8.8
2	+8°	39	0	15.8	+8	32.8	8.6
3	+8°	41	0	16.3	+8	49.6	8.7
4	+6°	45	0	18.4	+6	18.6	8.4
5	+6°	49	0	19.5	+6	19.5	8.0
6	+6°	52	0	20.1	+6	26.1	8.7
7	+6°	53	0	20.8	+6	52.7	8.6
8	+7°	59	0	21.4	+7	35.3	8.1
9	+8°	62	0	22.4	+8	0.0	8.4
10	+8°	51	0	19.4	+8	31.1	8.0
11	+9°	47	0	20.8	+9	23.7	6.5
12	+9°	50	0	22.1	+9	35.5	8.0
13	+8°	58	0	21.6	+8	51.0	8.8
14	+9°	51	0	22.2	+9	5.7	8.9
15	+8°	61	0	22.4	+8	53.9	8.0
16	+8°	62	0	23.6	+8	31.0	7.9
17	+8°	64	0	24.1	+8	21.3	7.6
18	+9°	59	0	25.0	+9	41.5	8.2
19	+9°	62	0	26.7	+9	30.2	6.8
20	+10°	60	0	26.4	+10	15.5	8.8
21	+10°	61	0	27.2	+10	20.5	8.5
22	+11°	72	0	28.0	+11	2.4	8.2
23	+10°	65	0	29.8	+10	37.6	7.3
24	+10°	70	0	32.1	+10	44.2	7.3
25	+9°	70	0	30.6	+9	2.0	8.2
26	+9°	74	0	33.5	+9	28.4	8.5
27	+11°	86	0	34.6	+11	9.4	8.2

Cards made out

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Tuesday Oct. 29 1912.

I 38033

No	Int.	Class	Remark
28	1	Ko	
29	2	F	
30	1	Gj	
Time: 11.42 31	1	A	
32			
33			
34			

28	+10°	80	0	35.7	+10	54.9	8.3 s
29	+10°	78	0	35.1	+10	19.0	8.5 v
30	+9°	81	0	36.1	+9	16.0	8.9 s
31	+9°	83	0	36.9	+9	9.3	9.0 v

Identified by AMC, Oct 30, 1912
Checked by J.B.W. Nov. 5, 1912.
cards made out by M.C.W.
Cards checked by H.R.B.

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Tuesday, Oct. 29, 1912

Time: 1.03

I 38075

	No.	Int	Class	Remark
	1	2	A	E.
	2	1	A	E.
1.04	3	7	A3	E.
1.07	4	6	F5	
	5	3	F0	
	6	6	F2	
	7	7	F5	E.
	8	6	F3	E.
	9	4	F3g	
	10	1	A	
	11	2	A0	
	12	6	A0	
	13	3	F2	
	14	4	A0	
	15	1	F	
	16	3	g5	
	17	3	F3g	
	18	9	F2	
	19	2	A	Partly superposed on 18.
	20	2	A0	
	21	3	A2	
	22	2	A	Partly superposed on 23.
	23	10	A0	
	24	3	F0	
	25	7	F5	
	26	10+	F3	
	27	4	F0	

1	+58°	2591	23	19.3	+58	52.2	8.1
2	+58°	2593	23	19.9	+58	30.1	9.0
3	+60°	2540	23	19.8	+60	17.2	7.0
4	+59°	2710	23	16.1	+59	20.0	6.0
5	+59°	2703	23	14.7	+59	40.4	7.5
6	+59°	2701	23	14.0	+59	28.6	6.7
7	+60°	2521	23	13.7	+60	21.3	7.0
8	+61°	2413	23	10.3	+61	9.7	6.5
9	+58°	2577	23	13.4	+58	50.4	8.0
10	+58°	2572	23	12.0	+58	41.0	8.0
11	+57°	2719	23	12.0	+57	23.1	8.0
12	+56°	2978 (58)	23	10.4	+56	51.8	7.2
13	+56°	2986 (5)	23	13.3	+56	27.4	6.7
14	+55°	2929	23	9.4	+55	58.3	7.6
15	+55°	2926	23	8.5	+55	56.8	8.5
16	+55°	2919	23	6.5	+55	45.0	7.6
17	+55°	2917	23	6.3	+55	45.4	8.2
18	+56°	2967 (6)	23	6.3	+56	22.1	6.0
19	+56°	2970 (69)	23	6.7	+56	40.3	8.0
20	+57°	2712	23	7.6	+57	3.0	8.0
21	+58°	2563	23	7.2	+58	9.6	8.0
22	+58°	2553	23	3.7	+58	31.0	8.3
23	+58°	2552	23	3.6	+58	34.5	6.1
24	+58°	2547	23	1.3	+58	13.5	7.3
25	+58°	2546	23	1.1	+58	57.6	6.5
26	+58°	2545	23	0.5	+58	38.5	5.8
27	+57°	2688	23	59.0	+57	57.2	7.2

cards made out

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Tuesday Oct. 29. 1912.

I 38078

No.	Int	Class	Remark
28	2	A0	
29	2	?	Look up.
30	7	F5	
31	2	A3	
32	6	A5	
33	7	B9	
34	8	B8	
35	2	F2	
36	2	A2	
37	9	F9	
38	6	F9	
39	3	A0	
40	2	A0	
41	3	A0	
42	7	A0	
43	1	F8	
44	4	A0	
45	4	Cont. The lines distinctly seen.	
Time: 1.15 Oct. 30. 1912 Time: 10.50	46	5	F2
	47	4	A E.
	48	2	A E.
	49	9	K E.
	50	2	A0
	51	1	K0
	52	3	A2
	53	3	A0
	54	1	? Faintly superposed on 53.

28	+57°	2684	22	58.7	+57	57.2	8.6 ✓
29	+57°	2689	22	59.1	+57	27.7	8.1 ✓
30	+57°	2676	22	57.3	+57	47.2	6.5 ✓
31	+58°	2540	22	58.4	+58	55.2	8.5 ✓
32	+58°	2533	22	56.7	+58	51.2	7.5 +58° 2534 Superposed magn 8.0
33	+59°	2629	22	56.4	+59	4.5	7.0 ✓
34	+59°	2631	22	57.4	+59	39.9	6.7 ✓
35	+59°	2625	22	55.7	+59	25.0	7.3 ✓
36	+58°	2526	22	58.1	+58	42.0	8.7 ✓
37	+59°	2615	22	53.2	+59	2.5	6.6 ✓
38	+59°	2607	22	51.0	+59	11.3	7.3 ✓
39	+58°	2515	22	51.0	+58	55.0	8.1 ✓
40	+58°	2516	22	51.0	+58	11.4	8.0 ✓
41	+58°	2514	22	50.6	+58	18.9	8.2 ✓
42	+57°	2644	22	50.1	+57	25.7	7.0 ✓
43	+58°	2500	22	48.2	+58	8.5	8.0 ✓
44	+58°	2497	22	46.8	+58	2.8	7.9 ✓
45	+58°	2492	22	45.8	+58	14.4	7.0 ✓
46	+59°	2595	22	47.3	+59	19.7	6.3 ✓
47	+60°	2453	22	47.1	+60	8.5	7.8 ✓
48	+60°	2456	22	48.3	+60	5.1	8.1 ✓
49	+60°	2450	22	45.7	+60	55.6	6.0 ✓
50	+59°	2575	22	43.2	+59	35.7	8.5 ✓
51	+58°	2499	22	47.1	+58	59.1	8.8 ✓
52	+58°	2482	22	42.0	+58	56.7	8.2 ✓
53	+58°	2483	22	42.4	+58	20.4	8.4 ✓
54	+57°	2613	22	41.8	+57	47.4	9.2

cards made and

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Wednesday, Oct. 30. 1912.
I 38078

No.	Int.	Class	Remark
55	10	A0	
56	4	F8	
57	8	F5	
58	3	K3g	
59	3	A0	
60	6	F0	
61	2	A	E.
62	3	A3	E.
63	2	B5	E.
64	3	A3	
65	4	K3g	
66	2	A	
67	3	A0	
68	3	A2	
69	7	F2	
70	1	F	
71	1	F5	
72	2	A	Partly superposed on 73.
73	3	A	" " " 72.
74	2	A	E.
75	8	M0	
76	2	O	Due bright line. ~~Probably~~ Probably bound 46 33. ~~Triangle~~ depart.
77	8	A2	E.
78	2	F2	
79	3	A5	
80	1	A	
81	1	A	

55	+57°	2612	22	41.7	+57	43.3	6.3 ✓
56	+57°	2604½	22	40¾	+57	18.8	8.9 ✓
57	+57°	2595	22	39.4	+57	23.5	6.7 ✓
58	+57°	2588	22	37.3	+57	40.3	8.0 ✓
59	+57°	2587	22	36.8	+57	46.3	7.8 ✓
60	+58°	2465	22	33.2	+58	10.0	7.0 ✓
61	+59°	2561	22	36.6	+59	9.9	8.0 ✓
62	+58°	2459	22	31.9	+58	44.8	8.3 ✓
63	+58°	2458	22	31.2	+58	50.9	8.0 ✓
64	+56°	2865	22	41.8	+56	53.4	8.6 ✓
65	+56°	2859	22	41.4	+56	50.1	8.5 ✓
66	+56°	2862	22	41.5	+56	27.2	9.1 ✓
67	+56°	2858	22	41.0	+56	4.4	8.0 ✓
68	+56°	2851	22	39.5	+56	22.7	7.9 ✓
69	+55°	2797	22	37.4	+55	38.7	7.0 ✓
70	+55°	2796	22	37.1	+55	54.4	8.7 ✓
71	+56°	2829	22	35.1	+56	4.6	8.8 ✓
72	+56°	2838	22	36.6	+56	40.8	8.5 ✓
73	+56°	2836	22	36.6	+56	51.0	7.9 ✓
74	+56°	2825	22	34.1	+56	37.8	8.5 ✓
75	+56°	2821	22	32.9	+56	2.7	6.0 ✓
76	+56°	2818	22	31.2	+56	9.4	8.9 ✓
77	+55°	2779	22	30.2	+55	19.2	6.8 ✓
78	+54°	2960	23	15.0	+54	54.1	8.0 ✓
79	+54°	2961	23	15.1	+54	1.5	8.0 ✓
80	+54°	2958	23	14.7	+54	24.9	8.9 ✓
81	+54°	2954	23	13.9	+54	43.6	8.8 ✓

cards made out

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Wednesday Oct. 30, 1912
I 38078

No.	Int.	Class	Remark
82	2	K2	
83	3	B9	
84	3	F1	
85	2	A5	
86	1	A	
87	1	N	
88	2	A0	
89	2	A3	
90	5	G5	
91	2	G0	
92	1	G5	
93	7	A0	
94	3	F0	
95	2	A	
96	5	K2	
97	8	G0	Lines sharp. somewhat peculiar.
98	3	F0	
99	2	A2	
100	1	A0	
101	3	A0	
102	4	F0	
103	2	A3	
104	6	B9	
105	2	F8	
106	1	A	
107	5	G5	
108	5	G5	

82	+53°	3128	23	12.0	+53	36.5	7.7 ✓
83	+54°	2944	23	11.0	+54	17.9	8.8 ✓
84	+54°	2941	23	10.0	+54	24.0	7.9 ✓
85	+54°	2938	23	8.5	+54	9.0	8.5 ✓
86	+54°	2936	23	8.1	+54	39.7	8.9 ✓
87	+55°	2937	23	11.7	+55	27.6	8.5 ✓
88	+55°	2925	23	8.5	+55	26.8	8.5 ✓
89	+55°	2914	23	6.3	+55	22.1	8.3 ✓
90	+56°	2958	23	3.9	+56	40.1	7.0 ✓
91	+56°	2953	23	2.1	+56	23.2	7.5 ✓
92	+56°	2954	23	2.3	+56	7.6	8.6 ✓
93	+55°	2819	22	58.7	+55	55.0	6.6 ✓
94	+55°	2881	22	57.7	+55	58.9	8.0 ✓
95	+55°	2887	22	58.3	+55	34.4	8.1 ✓
96	+56°	2927	22	55.4	+56	19.6	6.1 ✓
97	+56°	2923	22	54.0	+56	10.0	6.0 ✓
98	+57°	2663	22	54.0	+57	0.1	7.0 ✓
99	+57°	2668	22	55.4	+57	29.2	8.0 ✓
100	+57°	2660	22	58.0	+57	47.7	8.1 ✓
101	+56°	2915	22	51.4	+56	14.1	7.7 ✓
102	+55°	2855	22	51.0	+55	42.7	7.5 ✓
103	+56°	2909	22	50.3	+56	6.3	8.4 ✓
104	+55°	2850	22	50.1	+55	40.2	7.0 ✓
105	+55°	2858	22	51.6	+55	13.0	8.2 ✓
106	+54°	2884	22	51.0	+54	54.7	8.5 ✓
107	+55°	2837	22	48.8	+55	33.7	6.8 ✓
108	+55°	2830	22	46.6	+55	56.5	7.1 ✓

Cards made out

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Wednesday, Oct. 30, 1912.

I 38178

No.	Int.	Class	Remark
109	2	A0	
110	2.	K0	
111	2	A0	
112	1	A	
113	2)	A0	
114	8	K0	
115	5	B8	
116	2	Cont.	One dark line seen. Maybe H γ.
117	9	B5	
118	3	A0	Lines 4128, 3+4077 stronger than normal.
119	7	A0	
120	3	A3	
121	2	A	
122	1	A	
123	3	K2	
124	6	B9	
125	5	B9	
126	5	K2	
127	7	K0	
128	2	A	
129	3	A0	
130	2.	A0	E.
131	3	A2	
132	2	K2	
133	3	A0	
134	9	B8	
135	2	A0	

109	+55°	2827	22	46.1	+55	54.0	8.2 J
110	+56°	2890	22	46.1	+56	57.4	7.8 ✓
111	+57°	2629	22	45.9	+57	25.7	8.6 ✓
112	+56°	2900	22	49.6	+56	7.0	9.0 J.
113	+54°	2874	22	46.4	+54	54.7	8.4 J
114	+55°	2820	22	43.8	+55	7.9	5.9 ✓
115	+54°	2867	22	43.8	+54	3.5	8.0 J
116	+54°	2865	22	42.7	+54	21.7	8.5 ✓
117	+53°	2993	22	42.8	+53	39.21	6.0 ✓
118	+53°	2987	22	41.2	+53	59.3	7.6 J
119	+54°	2856	22	40.6	+54	6.6	7.1 J
120	+55°	2800	22	38.7	+55	5.8	8.3 J
121	+54°	2846	22	38.3	+54	49.6	8.5 J
122	+54°	2843	22	37.8	+54	35.1	8.7 J
123	+53°	2968	22	37.0	+53	59.7	7.4 J
124	+53°	2961	22	36.5	+53	29.4	7.3 J
125	+53°	2958	22	35.7	+53	37.6	8.0 ✓
126	+53°	2960	22	36.4	+53	8.8	6.0 ✓
127	+53°	2950	22	34.4	+53	5.5	6.0 ✓
128	+54°	2836	22	35.0	+54	15.3	8.7 J
129	+54°	2830	22	33.6	+54	17.5	8.0 ✓
130	+54°	2827	22	33.1	+54	9.2	8.2 ✓
131	+54°	2834	22	34.5	+54	52.1	8.0 ✓
132	+53°	3150 (49)	23	16.1	+53	26.0	7.9 J
133	+52°	3417	23	12.4	+52	28.0	8.3 J
134	+52°	3410	23	10.1	+52	26.3	5.4 J
135	+53°	3103	23	7.6	+53	0.0	8.1 ✓

Clouds made out

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Wednesday Oct. 30, 1912
I 38078

	No.	Int.	Class	Remark
	136	2	Bg	
	137	3	A	Partly superposed on 138.
	138	1	A5	" " " 137.
	139	.1	lyo	
	140	.3	Fz	
	141	3	Ao	
	142	2	F5	Omit unless confirmed.
	143	1	Bg	
	144	1	A	
11.11	145	1	Fo	
11.38	146	2	A5	
	147	2	G5	
	148	3	F2	
	149	2	A3	
	150	5	A5	
	151	3	Fo	
▲	152	2	F2	
	153	3	F2	
	154	2	A	
	155	6	F2	
	156	7	Bg	
	157	3	F5	
	158	1	F	
	159	1	A	
Line 11.	160	1	F	
	161	3	A	E.
	162	5	Ao	

136	+53°	3093	23	57	+53	45.0	8.4
137	+53°	3085	23	3.1	+58	49.1	8.1
138	+53°	3084	23	3.0	+53	38.4	8.5
139	+54°	2915	23	1.1	+53	4.2	8.6
140	+54°	2909	22	58.5	+54	54.7	8.0
141	+55°	2879	22	56.6	+55	3.3	8.2
142	+54°	2901	22	56.7	+54	44.2	8.7
143	+54°	2900	22	56.5	+54	27.8	6.5
144	+55°	2871	22	54.2	+55	15.4	8.5
145	+55°	2877	22	56.2	+55	34.1	8.5
146	+54°	2897	22	54.9	+54	11.5	8.8
147	+54°	2895	22	54.5	+54	25.9	8.3
148	+53°	3052	22	54.6	+53	32.5	7.7
149	+53°	3042	22	52.9	+53	44.7	8.4
150	+53°	3059	22	56.0	+53	1.7	7.4
151	+52°	3360	22	57.1	+52	31.3	7.5
152	+52°	3357	22	56.5	+52	27.8	8.0
153	+52°	3354	22	56.5	+52	3.8	8.1
154	+52°	3346	22	54.2	+52	6.0	8.9
155	+51°	3514	22	52.9	+51	51.8	6.0
156	+51°	3515	22	52.9	+51	32.6	7.0
157	+51°	3523 3544	22	49.2 53.0	+51	51.8	8.0
158	+52°	3339	22	53.1	+52	56.0	8.6
159	+53°	3038	22	51.3	+53	17.1	8.5
160	+53°	3032	22	49.8	+53	28.7	8.0
161	+51°	3499	22	47.4	+51	55.1	8.5
162	+52°	3311	22	48.6	+52	15.6	7.0

cards made out

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Wednesday, Oct. 30, 1912.
I 38078

	No.	Int.	Class	Remark
	163	7	A2	
	164	4	K0	
	165	4	K2	
	166	5	F2	E.
	167	2	A	E.
	168	6	B0	E.
Time: 11.43	169	7	K0	
	~~170~~			

June 21, 1915 ✓ 170 4 A2 E
" " ✓ 171 2 A E

Dec. 23, 1915

172	2	K2	
173	1	K5	
174	2	K0	
175	3	A0	
176	3	K0	

163	+52°	3295	22	41.3	+52	37.3	7.0 ✓
164	+52°	3288	22	39.6	+52	7.0	7.5 ✓
165	+51°	3460	22	38.8	+51	45.1	7.0 ✓
166	+51°	3558	23	5.8	+51	26.3	7.5 ✓
167	+52°	3390	23	5.7	+52	2.0	8.2 ✓
168	+52°	3383	23	4.7	+52	16.5	7.2 ✓
169	+52°	3371	23	0.8	+52	2.0	5.5 ✓

Identified by AMC. Nov. 2, 1912
Checked by J.C.M. Nov. 20, 1912.
cards made out by M. C.W.
Cards checked by E.R.B.

170	+60°	2482	23	1.1	+60	2.9	7.5 ✓
171	+60°	2473	22	57.6	+60	41.8	8.0 ✓

Ident. by M.A.H. June 21, 1915
Ident on cards by AMC. June 21, 1915
Compared by E.R.B. June

172	+58°	2609	23	25.0	+58	18	7.5 ✓
173	+58°	2607	23	24.7	+58	38	7.5 ✓
174	+59°	2746	23	26.9	+59	39	7.6 ✓
175	+54°	2966	23	17.0	+54	50	8.7 ✓
176	+59°	2729	23	21.6	+59	16	7.6 ✓

Ident. in both by J.B.M. Dec. 23, 1915.
Ident on cards by J.B.M. Dec. 23, 1915.

checked by J.C.M.

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Wednesday Oct. 30, 1912

Time: 12.35

B 4209 shut disp.

No.	Int.	Class	Remarks
1	3	J½	
2	6	F8	
3	2	A5	
4	4	F0	
5	1	J[illegible]	
6	3	F8	
7	3	F0	
8	4	G5	
9	1	J[illegible]	
10	4	A2	
11	5	J½	
12	1	F5	
13	3	J½	
14	7	F8	
15	3	G0	
16	8	F0	
17	10	G5	
18	3	J½	
19	1	J½	
20	2	F2	
21	5	J½	
22	3	J½	
23	5	F0	W - [illegible]
24	2	F5	
25	1	J½	
26	2	F5	
27	5	A2	

1	-45°	1627	4	35.8	-44 (5)	22.0	8.6	↓
2	-45°	1629	4	35.9	-44 (5)	17.5	8.0	↓
3	-44°	1455	4	36.6	-44	58.7	9.3	↓
4	-45°	1646	4	38.1	-45	9.3	8.6	↓
5	-44°	1663	4	38.0	-44	55.9	8.9	↓
6	-44°	1670	4	38.6	-44	53.3	9.0	↓
7	-44°	1664	4	38.4	-44	44.2	8.9	↓
8	-44°	1659	4	37.6	-44	8.2	8.2	↓
9	-44°	1677	4	39.2	-44	27.4	9.5	↓
10	-44°	1689	4	40.7	-44	39.0	9.4	↓
11	-44°	1693	4	41.0	-44	46.7	8.0	↓
12	-45°	1660	4	40.2	-45	17.0	9.5	↓
13	-44°	1695	4	41.8	-44	7.4	8.8	↓
14	-44°	1700	4	42.1	-44	30.8	8.7	↓
15	-44°	1703	4	42.6	-44	29.0	9.3	↓
16	-44°	1714	4	43.9	-44	29.4	8.1	↓
17	-44°	1720	4	44.7	-44	11.9	6.7	↓
18	-45°	1676	4	42.3	-45	56.8	8.6	↓
19	-45°	1691 (8)	4	43.1	-45	53.0	9.2	↓
20	-45°	1694 (2)	4	45.7 (4)	-45	13.8 (9) 22.7	8.3	↓
21	-45°	1694	4	45.7	-45	22.7	8.3	↓
22	-45°	1696	4	45.9	-45	13.2	8.6	↓
23	-45°	1707	4	47.3	-45	8.3	9.1	↓
24	-44°	1724	4	45.4	-44	57.4	9.6	↓
25	-44°	1728 (7)	4	45.7	-44	42.0 (3)	9.0	↓
26	-44°	1725	4	45.7	-44	16.9	9.3	↓
27	-43°	1563	4	44.3	-43	40.9	9.0	↓

cards made out

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Wednesday, Oct. 30, 1912.

B 4200 90 shot disp.

No.	Int.	Class	Remark
28	7	F8	
29	3	F0	
30	3	K0	
31	3	K5	
32	2	G	
33	4	Ma	
34	3	K5	
35	4	G0	
36	9	A2	
37	8	A0	
38	3	F0	
39	6	F5	
40	3	K2	
41	5	K0	
42	3	F5	
43	10	F	
44	2	G5	
45	1	Ma	
46	4	K5	
47	3	K5	
48	1	G	
49	3	A5	
50	2	K5	
51	3	G0	
52	2	K0	
53	5	G0	
54	4	K5	

28	-43°	1583	4	47.8	-43	15.8	7.5	
29	-44°	1735	4	47.2	-44	5.2	9.0	
30	-44°	1736	4	47.4	-44	29.7	8.3	
31	-44°	1762	4	49.3	-44	46.8	8.5	
32	-43°	1589	4	48.2	-43	29.6	9.4	
33	-43°	1590	4	48.7	-43	15.8	7.2	
34	-42°	1655	4	48.1	-42	58.3	8.5	
35	-42°	1641	4	46.6	-42	49.4	8.6	
36	-42°	1637	4	45.2	-42	36.1	7.4	-42° 1638 8.8 magn. superposed
37	-42°	1639	4	45.4	-42	37.9	7.4	
38	-42°	1635	4	44.9	-42	14.5	9.0	
39	-42°	1640	4	45.5	-42	10.8	7.8	
40	-42°	1642	4	45.7	-42	4.2	7.6	
41	-41°	1586	4	46.2	-41	48.2	7.5	
42	-41°	1592	4	46.1	-41	48.2	8.6	
43	-41°	1593	4	46.2	-41	31.9	6.5	
44	-41°	1594	4	46.5	-41	15.2	8.6	
45	-41°	1608	4	48.1	-41	12.9	8.7	
46	-41°	1628	4	51.0	-41	15.6	8.0	
47	-41°	1630	4	51.2	-41	1.1	8.1	
48	-41°	1633	4	51.7	-41	16.9	9.1	
49	-41°	1634	4	51.9	-41	38.1	8.7	
50	-41°	1626	4	50.8	-41	53.9	8.4	
51	-42°	1671	4	50.1	-42	36.0	9.0	
52	-43°	1596	4	50.0	-43	13.1	9.0	
53	-42°	1694	4	52.8	-42	57.5	8.4	
54	-43°	1615	4	52.7	-43	37.5	7.7	

cards made out

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Wednesday, Oct. 30, 1912.
D 42090 chart disp.

Nr.	Int.	Class	Remark
55	2	F8	
56	7	Ao	
57	5	K0	
58	2	Ky	
59	3	A2	
60	7	F2	
61	2	K0	
62	2	Ky	
63	7	Ao	
64	2	K0	
65	5	A5	
66	7	Ky	
67	5	K0	
68	8	A2	
69	7	A3	
70	1	K0	
71	2	A	
72	2	K0	
73	5	Ky	
74	4	F8	
75	2	F5	
76	6	F5	
77	4	F5	
78	2	K0	
79	8	A2	
80	3	K0	
81	1	K2	

55	-43°	1619	4	53.4	-43	39.6	9.1	
56	-43°	1623	4	53.8	-43	13.4	7.5	
57	-44°	1792	4	53.0	-44	23.4	7.8	
58	-44°	1800	4	53.8	-44	30.6	9.6	
59	-44°	1801	4	54.1	-44	49.3	9.7	
60	-44°	1805	4	54.7	-44	46.0	8.6	
61	-45°	1757	4	54.6	-45	1.1	9.2	
62	-45°	1753	4	54.2	-45	20.5	9.1	
63	-45°	1759	4	55.1	-45	28.8	7.7	
64	-44°	1809	4	55.1	-44	52.0	9.1	
65	-44°	1830	4	57.2	-44	59.8	8.7	
66	-45°	1772	4	57.9	-45	0.4	8.0	
67	-44°	1841	4	59.2	-44	59.8	8.5	
68	-45°	1777	4	58.4	-45	46.7	7.8	
69	-45°	1795	5	0.3	-45	23.0	8.1	
70	-45°	1798	5	0.8	-45	7.2	8.7	
71	-44°	1851	5	1.2	-44	37.0	9.1	9.2 mgn. -44° 1850 superposed
72	-44°	1848	5	1.0	-44	20.3	8.4	
73	-44°	1860	5	2.2	-44	56.8	7.8	
74	-43°	1628	4	55.1	-43	53.0	7.8	
75	-43°	1629	4	55.1	-43	44.0	8.8	
76	-43°	1630	4	55.2	-43	34.7	7.5	
77	-43°	1637	4	56.1	-43	28.6	7.8	
78	-42°	1697	4	53.8	-42	30.7	8.8	
79	-42°	1695	4	53.0	-42	10.6	7.7	
80	-41°	1650	4	54.1	-41	44.0	8.2	
81	-41°	1651	4	54.4	-41	50.7	8.3	

Cards made out

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Wednesday, Oct. 30, 1912.
73 42090 short disp.

No	Int.	Class	Remark
82	3	Ma	
83	2	K0	
84	6	Ma	
85	3	K2	
86	3	A2	
87	2	Go	
88	10	G	
89	2	A	
90	2	Ma	
91	3	Go	
92	4	A	
93	3	G5	
94	3	A2	
95	10	A5	
96	2	K0	
97	3	K2	
98	2	G5	
99	3	K0	
100	1	K0	
101	4	F5	
Time: 12.52-102 Oct. 31, 1912	5	F2	
Time: 10.18	103	2	F5
104	1	A	
105	1	K0	
106	9	A0	
107	4	F5	
108	7	A5	

82	-42°	1716	4	57.0	-42	11.1	7.7
83	-42°	1712	4	56.1	-42	40.6	8.4
84	-42°	1736	4	59.1	-42	40.3	7.1
85	-41°	1681	4	59.0	-41	46.9	7.8
86	-41°	1685	4	59.2	-41	54.0	9.0
87	-42°	1738	4	59.3	-42	8.8	9.2
88	-41°	1690	4	59.9	-41	55.5	6.5
89	-43°	1652	4	58.6	-43	41.2	8.8
90	-42°	1559	4	30.7	-42	17.3	7.8
91	-41°	1481	4	31.0	-41	49.3	7.9
92	-41°	1477	4	30.6	-41	29.0	8.3
93	-42°	1569	4	32.5	-42	34.6	8.7
94	-42°	1573	4	33.4	-42	18.3	8.9
95	-42°	1572	4	33.3	-42	7.8	6.6
96	-43°	1466	4	28.7	-43	42.0	8.0
97	-43°	1472	4	30.1	-43	47.1	8.5
98	-43°	1490	4	32.2	-43	53.0	9.0
99	-43°	1495	4	32.5	-43	42.0	8.0
100	-43°	1499	4	33.4	-43	7.6	9.2
101	-43°	1514	4	35.8	-43	38.0	8.3
102	-42°	1589	4	36.9	-42	44.3	8.8
103	-43°	1522	4	37.7	-43	14.8	9.2
104	-42°	1604	4	39.6	-42	54.7	9.4
105	-43°	1540	4	40.9	-43	16.0	9.0
106	-42°	1615	4	41.6	-42	47.0	7.3
107	-42°	1625	4	42.7	-42	50.4	8.5
108	-42°	1624	4	42.6	-42	19.1	7.8

Cards made out

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Thursday. Oct. 31, 1912.

R 42090 short disp.

No	Int.	Class	Remark
109	2	F0	
110	1	K0	
111	4	F5	
112	5	K0	
113	8	K0	
114	2	K0	
115	1	K0	
116	2	F	
117	10+	F?	Burned out
118	3	K0	
119	2	G5	
120	4	K0	E.
121	2	K2	E.
122	1	G5	
123	1	K0	
124	1	K5	
125	3	F0	
Trace 10.24 126	2	K5	
127			

109	-41°	1567	4	42.4	-41	18.9	8.3 v
110	-42°	1614	4	41.4	-42	11.5	9.1 v
111	-41°	1556	4	40.8	-41	58.8	8.5 v
112	-41°	1546	4	39.5	-41	59.3	7.8 v
113	-41°	1549	4	39.6	-41	17.2	6.5 v
114	-41°	1538	4	38.2	-41	32.9	8.5 v
115	-41°	1539	4	38.3	-41	58.0	8.7 v
116	-42°	1595	4	37.6	-42	22.3	9.2 v
117	-42°	1587	4	36.5	-42	6.3	4.6 v
118	-41°	1511	4	35.2	-41	58.0	8.8 v
119	-42°	1575	4	33.4	-42	36.9	9.6 v
120	-40°	1431	4	26.4	-40	39.7	7.7 v
121	-40°	1447	4	28.4	-40	28.2	8.0 v
122	-40°	1570	4	42.1	-40	8.5	8.5 v
123	-40°	1583	4	43.7	-40	40.0	8.7 v
124	-40°	1611	4	46.6	-40	25.4	8.4 v
125	-40°	1618	4	47.4	-40	37.4	9.1 v
126	-40°	1628	4	48.4	-40	21.7	8.7 v

Identified by J.C.M. Nov. 16, 1912
Checked by A.M.C. Nov. 28, 1912
cards made out by M.C.W.
Cards checked by C.R.B.

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Thursday Oct 31, 1912

Time: 18.06

B1228 7 short disp.

No.	Int.	Class	Remark
1	6	A2	
2	3	A	
3	8	F0	
4	2	K2	
5	2	K5	
6	10+	F2	
7	8	A	
8	4	K0	
9	6	G5	
10	8	K0	
11	3	A2	
12	2	K0	
13	4	K0	
14	2	A5	
15	6	F5	
16	7	A5	The southerly star
17		A	Completely enveloped in 16.
18	2	G0	
19	3	A5	
20	1	K	
21	7	F2	
22	1	G	
23	2	Ma	
24	4	G5	
25	2	F0	
26	6	A2	
27	8	F8	

1	-38°	16 28	4	28.7	-38	32.8	7.5
2	-38°	1650	4	31.6	-38	25.4	8.5
3	-38°	1655	4	32.0	-38	4.9	7.1
4	-37°	1846	4	34.5	-37	34.4	7.7
5	-37°	1865	4	37.4	-37	26.2	8.0
6	-37°	1867	4	37.6	-37	23.1	5.1
7	-37°	1869	4	37.7	-37	57.8	6.8
8	-38°	1728	4	42.0	-38	20.8	7.4
9	-38°	1733	4	42.7	-38	31.9	7.2
10	-39°	1624	4	41.7	-39	35.4	6.4
11	-38°	1703	4	37.9	-38	47.2	8.4
12	-39°	1601	4	38.4	-39	5.4	8.0
13	-39°	1583	4	35.9	-39	3.0	7.1
14	-40°	1504	4	34.9	-40	11.6	9.0
15	-39°	1590	4	36.8	-39	49.5	7.5
16	-40°	1522	4	36.6	-40	5.0	9.0
17	-40°	1521	4	36.6	-40	6.0	8.3
18	-39°	1558	4	32.0	-39	40.5	8.5
19	-40°	1461	4	30.9	-40	16.6	9.0
20	-40°	1464	4	31.1	-40	28.2	8.5
21	-39°	1539	4	28.9	-39	45.5	7.5
22	-39°	1516	4	26.7	-39	27.6	8.7
23	-40°	1447	4	28.4	-40	28.2	8.0
24	-40°	1431	4	26.4	-40	39.7	7.7
25	-40°	1425	4	25.8	-40	39.7	8.7
26	-40°	1404	4	23.1	-40	28.3	8.0
27	-40°	1405	4	23.3	-40	45.3	7.2

cards made out

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Thursday Oct. 31. 1912.
B12287 short disp.

Nr.	Int.	Class	Remark
28	8	Ko	
29	4	K5	
30	1	K5	
31	2	K0	
32	1	Ko	
33	1	Gy	
Time: 11.15 34	2	Gy5	
35	5	Ko	
36	8	Ao	
37	7:1	B9:	

28	-41°	1447	4	26.7	-41	26.3	6.9	1
29	-41°	1440	4	26.1	-41	55.7	7.5	1
30	-41°	1445	4	26.6	-41	44.6	8.1	1
31	-40°	1498	4	34.2	-40	50.5	8.7	1
32	-40°	1518	4	36.4[5]	-40	39.6	8.9	1
33	-38°	1671	4	34.5	-38	24.9	9.1	1
34	-40°	1433	4	26.8	-40	7.1	8.7	

Identified by J.C.M. Nov. 15, 1917.[2]
cards made out by M. C. W.
Cards checked by E.B.F.

35	-39°	1509	4	25.9	-39	16	7.0	74	m B3655
36	-40°	1396	4	22.4	-40	49	6.8	64	" "
37	-40°	1372	4	20.0	-40	21	7.3	61	" "

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Thursday, Oct. 31 1912

B41073 short disp.

Time: 11.22

No	Int.	Class	Remark
1	3	K2	
2	6	K0	
3	3	K0	
4	3	G5	
5	3	G0	
6	4	F5	
7	4	F0	
8	2	K0	
9	4	F5	
10	b4	G0	
11	8	F8	
12	2	K0	
13	2	K0	
14	2	F8	
15	10+	A	Gamma out.
16	5	G0	
17	6	F0	
18	2	K2	
19	2	G5	
20	3	F2	
21	3	Ma	
23	5	F2	
x3	2	G5	
24	8	K0	
25	2	K5	
26	3	G	Parity superposed on 27.
27	4	A3	

1	-30°	1559	3	51.0	-30	10.2	8.0	✓
2	-30°	1564	3	51.1	-30	1.3	7.5	✓
3	-30°	1567	3	51.5	-30	21.6	8.5	✓
4	-30°	1576	3	52.6	-30	13.5	8.5	✓
5	-29°	1515	3	54.1	-29	55.0	8.6	✓
6	-29°	1519	3	54.6	-29	41.6	8.3	✓
7	-29°	1526	3	55.4	-29	35.5	8.0	✓
8	-29°	1522	3	56.0	-29	23.4	9.0	✓
9	-29°	1517	3	54.4	-29	7.6	8.0	✓
10	-28°	1369	3	56.0	-28	37.8	8.5	✓
11	-28°	1379	3	57.3	-28	52.4	7.4	✓
12	-29°	1536	3	57.5	-29	0.7	8.9	✓
13	-29°	1532	3	56.6	-29	32.0	8.7	✓
14	-29°	1539	3	57.7	-29	58.0	8.8	✓
15	-30°	1597	3	55.7	-30	50.7	5.9	✓
16	-30°	1609	3	57.1	-30	49.0	8.3	✓
17	-30°	1636	3	59.9	-30	33.8	7.5	✓
18	-30°	1638	4	0.0	-30	31.6	8.3	✓
19	-30°	1634	3	59.7	-30	20.8	9.2	✓
20	-29°	1555	3	59.4	-29	51.4	8.5	✓
21	-30°	1642	4	0.9	-30	0.6	8.0	✓
22	-31°	1658	3	57.9	-31	35.3	8.0	✓
23	-31°	1666	3	58.8	-31	23.5	8.5	✓
24	-31°	1673	3	59.3	-31	11.7	8.5	✓
25	-31°	1667	3	58.9	-31	41.2	8.5	✓
26	-31°	1670	3	59.2	-31	37.2	8.7	✓
27	-31°	1672	3	59.3	-31	38.2	8.7	✓

Cards made out

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Thursday Oct. 31, 1912

B 41072 clear & calm.

No.	Int.	Class	Remark
28	5	$\mathcal{H}_0$	
29	8	$\mathcal{H}_6$	
30	4	$\mathcal{H}_8$	
31	3	$\mathcal{H}_8$	
32	1	h_5	
33	2	$\mathcal{H}_8$	
34	3	h_0	
35	3	h_0	
36	2	h_0	
37	4	A_2	
38	3	h_5	Partly superposed on 39.
39	4	A_5	
40	4	N_0	
41	4	N_2	
42	7	N_0	
43	8	A	
44	8	$\mathcal{H}_5$	
45	2	N_0	
46	4	A_2	
47	5	A_2	
48	7	A	
49	5	h_0	
50	2	h_5	
51	3	$\mathcal{H}_2$	
52	5	$\mathcal{H}_8$	
53	2	h_5	
54	4	$\mathcal{H}_2$	

28	-31°	1679	4	0.2	-31	30.5	8.2 ↓
29	-31°	1687	4	0.7	-31	23.5	6.9 ↓
30	-31°	1697	4	1.8	-31	14.7	8.5 ↓
31	-31°	1695	4	1.5	-31	0.0	9.3 ↓
32	-30°	1648	4	1.3	-30	29.6	9.0 ↓
33	-30°	1657	4	2.5	-30	7.2	9.0 ↓
34	-30°	1661	4	2.9	-30	16.2	8.9 ↓
35	-30°	1670	4	3.3	-30	47.0	8.5 ↓
36	-30°	1677	4	4.3	-30	46.1	8.8 ↓
37	-30°	1687	4	5.5	-30	36.2	8.3 ↓
38	-30°	1694	4	6.9	-30	39.5	8.5 ↓
39	-30°	1695	4	7.0	-30	34.5	8.5 ↓
40	-30°	1696	4	7.2	-30	45.8	7.7 ↓
41	-30°	1701	4	7.9	-30	37.8	7.9 ↓
42	-30°	1710	4	9.1	-30	25.8	7.3 ↓
43	-30°	1719	4	10.2	-30	22.8	7.5 ↓
44	-30°	1721	4	10.4	-30	41.2	8.7 ↓
45	-30°	1723	4	10.7	-30	52.3	7.9 ↓
46	-29°	1647	4	11.0	-29	27.8	8.5 ↓
47	-29°	1652	4	11.7	-29	36.3	8.6 ↓
48	-29°	1654	4	11.9	-29	12.7	7.7 ↓
49	-29°	1672	4	14.6	-29	5.3	8.0 ↓
50	-29°	1683	4	16.5	-29	12.9	8.1 ↓
51	-29°	1692	4	17.3	-29	39.8	8.5 ↓
52	-29°	1704	4	19.6	-29	32.3	8.3 ↓
53	-29°	1708	4	20.1	-29	42.1	8.5 ↓
54	-29°	1709	4	20.2	-29	10.2	8.8 ↓

Canvas made out

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Thursday Oct. 31, 1912.

B 4107 2 short disp.

	Nr.	Int.	Class	Remark
	55	4	Jf5	
	56	3	Jg5	
	57	3	Jg0	
	58	4	Jg5	
	59	4	Jh5	
	60	3	Jf2	
11.31	61	3	Jg5	
11.44	62	1	Jg5	
	63	2	Jf0	
	64	3	Jf	Parity superposed on 65.
	65	3	Jf0	
	66	3	Jf5	
	67	4	Jg0	
	68	2	Jf	
	69	3	Jg0	
	70	2	Jg5	
	71	3	Jf0	
	72	2	Jg	
	73	1	Jg5	
	74	3	Jg0	
	75	3	Jf2	
	76	4	Jf0	
	77	7	Jg0	
	78	9	Jg0	
	79	3	Jg0	
	80	3	Jf5	
	81	2	Jf8	

53	-29°	1714	4	20.8	-29	2.4	8.7	↓
56	-28°	1543	4	20.5	-28	46.3	8.2	↓
57	-29°	1721	4	21.6	-29	13.8	8.5	✓
58	-27°	1685	4	18.4	-27	57.0	8.0	✓
59	-28°	1527	4	18.6	-28	7.6	8.0	↓
60	-28°	1523	4	18.1	-28	31.3	8.4	↓
61	-29°	1697	4	18.7	-29	3.4	8.6	↓
62	-29°	1706	4	19.7	-29	7.2	8.7	✓
63	-30°	1725	4	11.3	-30	2.6	8.6	✓
64	-30°	1734	4	12.0	-30	23.5	8.5	↓
65	-30°	1735	4	12.1	-30	18.8	8.7	↓
66	-30°	1742	4	12.4	-30	45.8	8.5	✓
67	-31°	1786	4	13.5	-31	9.9	8.5	↓
68	-30°	1783	4	15.0	-30	42.7	8.5	↓
69	-30°	1797	4	16.8	-30	30.4	8.7	↓
70	-29°	1685	4	16.6	-29	57.2	8.7	↓
71	-30°	1796	4	18.0	-30	2.7	8.3	↓
72	-30°	1798	4	18.1	-30	1.7	9.0	✓
73	-30°	1797	4	18.0	-30	26.0	8.9	↓
74	-29°	1722	4	21.9	-29	37.3	8.7	↓
75	-28°	1366	3	55.3	-28	2.0	9.0	↓
76	-27°	1493	3	54.9	-27	37.8	8.8	↓
77	-27°	1497	3	55.2	-27	11.6	8.1	↓
78	-26°	1521	3	56.1	-26	52.1	7.9	✓
79	-27°	1502	3	55.8	-27	42.1	9.1	✓
80	-27°	1503	3	56.0	-27	45.8	8.9	↓
81	-28°	1372	3	56.5	-28	4.5	8.8	✓

cards made out

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Thursday, Oct. 31, 1912.

B4107 2 short disp.

No.	Int	Class	Remark
82	8	fg0	
83	3	fg2	
84	4	fg0	
85	2	fg0	
86	4	f5	
87	8	fg5	
88	4	f5	
89	5	f5	
90	3	f8	
91	4	f8	
92	3	fg0	
93	4	fg0	
94	2	fg0	
95	10+	f	
96	5	f2	
97	2	fg0	
98	2	fg8	
99	1	fg5	
100	5	f2	
101	3	fg0	
102	6	f2	
103	3	fg2	
104	3	fg0	
105	2	fg5	
106	4	g5	
107	2	fg5	
108	4	fg8	Another star faintly superposed.

82	-27°	1517	3	57.6	-27	50.1	7.4	✓
83	-27°	1516	4	57.5	-27	20.9	8.5	✓
84	-26°	1528	3	57.4	-26	58.6	8.9	✓
85	-26°	1529	3	57.5	-26	25.6	9.3	✓
86	-26°	1533	3	58.1	-26	21.6	9.0	✓
87	-26°	1535	3	58.4	-26	11.4	7.1	✓
88	-26°	1534	3	58.3	-26	50.3	8.3	✓
89	-25°	1784	3	59.7	-25	50.6	8.0	✓
90	-26°	1544	4	0.1	-26	9.0	8.9	✓
91	-26°	1550	4	0.9	-26	5.3	8.8	✓
92	-26°	1549	4	0.7	-26	59.8	8.6	✓
93	-27°	1530	3	59.3	-27	59.7	8.3	✓
94	-28°	1390	3	59.6	-28	5.0	9.0	✓
95	-28°	1540 / 1390	4	0.6 / 59.6	-28	4.5 / 5.0	59.7 / 9.0	✓
96	-28°	1392	3	59.7	-28	41.3	8.2	✓
97	-28°	1396	4	0.2	-28	40.8	9.4	✓
98	-29°	1559	3	59.8	-29	16.2	8.4	✓
99	-29°	1564	4	0.6	-29	29.4	8.8	✓
100	-29°	1569	4	2.0	-29	8.5	8.0	✓
101	-29°	1572	4	2.2	-29	1.1	9.0	✓
102	-29°	1587	4	3.9	-29	14.1	7.7	✓
103	-29°	1592	4	4.3	-29	6.8	8.0	✓
104	-29°	1606	4	5.9	-29	22.9	8.0	✓
105	-29°	1607	4	5.9	-29	18.4	8.5	✓
106	-29°	1615	4	7.5	-29	24.9	8.0	✓
107	-29°	1633	4	9.0	-29	23.4	8.7	✓
108	-29°	1641	4	10.2	-29	14.0	8.5	✓

* The dec. of this star, adopted for 41.8 agrees with that of 96. 59.8 gives the correct dec.

8.7 magn. -29° 1643 superposed

cases made out

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Thursday Oct. 31 1912.

E 41072 short disp.

No.	Int.	Class	Remark
109	8	Ir	
110	2	IV2	
111	3	Iy5	
112	1	IV0	
113	2	Iy0	
114	2	Iy5	
115	2	IV0	
116	3	Iy5	
117	1	IV0	
118	2	Ir8	
119	2	Iy0	
120	4	Ir8	
121	3	IV5	
122	2	Iy	
123	2	Ir?	Another star superposed ? No.
124	3	Ir2	
125	7	IV0	
126	6	IV2	
127	4	Ir5	
128	10	Ir	
129	2	Iy5	
130	5	Iy0	
131	8	IV0	
132	3	Ir5	
133	3	IV0	
134	4	IV0	
135	2	IV2	

109	-28°	1457	4	7.9	-28	51.6	7.5	
110	-28°	1453	4	7.5	-28	17.8	8.9	
111	-27°	1599	4	6.9	-27	53.1	8.8	
112	-27°	1609	4	8.5	-27	59.1	8.8	
113	-27°	1619	4	9.9	-27	43.1	9.0	
114	-27°	1628	4	10.8	-27	49.8	8.7	
115	-28°	1475	4	10.6	-28	42.5	8.8	
116	-28°	1476	4	11.5	-28	44.5	8.9	
117	-28°	1483	4	12.9	-28	45.5	9.0	
118	-28°	1485	4	13.6	-28	28.5	8.8	
119	-28°	1495	4	14.5	-28	49.8	9.3	
120	-27°	1650	4	13.7	-27	2.6	8.1	
121	-27°	1656	4	14.2	-27	34.8	7.9	
122	-27°	1654	4	14.0	-27	17.9	8.8	
123	-27°	1666	4	15.3	-27	13.7	8.9	
124	-26°	1638	4	15.8	-26	47.3	8.6	
125	-26°	1629	4	14.4	-26	14.9	7.3	
126	-25°	1842	4	14.5	-25	19.3	7.1	
127	-25°	1841	4	14.5	-25	10.6	9.1	
128	-26°	1642	4	16.3	-26	1.6	6.2	-26° 1643 8.5 magn. superposed
129	-26°	1650	4	17.2	-26	12.0	8.6	
130	-25°	1868	4	18.1	-25	40.5	7.6	
131	-25°	1862	4	17.9	-25	10.7	6.1	
132	-26°	1564	4	2.2	-26	38.3	8.3	
133	-27°	1554	4	1.9	-27	28.4	8.4	
134	-27°	1564	4	2.7	-27	45.4 54.1	8.1	
135	-27°	1564	4	2.7	-27	54.1	8.1	

cards made out

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Thursday Oct. 31 1912.

B 4107 2 shot drifs.

Hr.	Int.	Class	Remarks
136	4	F5	
137	3	A0	
138	1	K	
139	2	F8	
140	6	F2	
141	5	G5	
142	7	F5	
143	8	F8	
144	7	F0	
145	4	F2	
146	2	F2	
147	2	F0	
148	4	G5	
149	3	G0	
150	3	F5	
151	3	G0	
152	4	F8	
153	2	F5	
154	1	G	
155	7	F0	
156	3	F0	
157	2	G5	
158	4	A2	
159	3	A	
160	2	F0	
161	1	G5	
162	1	G	

136	-28°	1423	4	4.3	-28	7.9	8.4	✓
137	-27	1577	4	4.9	-27	58.4	8.7	✓
138	-28°	1431	4	5.1	-28	47.6	9.0	✓
139	-28°	1415	4	3.0	-28	50.6	9.0	✓
140	-26°	1575	4	4.3	-26	20.9	7.6	✓
141	-26°	1582	4	5.3	-26	23.1	8.0	✓
142	-25°	1762 1786	4	5.6	-25	45.1	7.7 8.5	✓
143	-25°	1763	4	5.5	-25	25.5	7.6	✓
144	-25°	1754	4	4.7	-25	22.1	7.3	✓
145	-25°	1748	4	3.8	-25	20.4	7.6	✓
146	-25°	1738	4	3.0	-25	43.1	8.1	✓
147	-26°	1563	4	2.2	-26	2.2	8.8	✓
148	-26°	1583	4	5.4	-26	56.6	8.5	✓
149	-27°	1594	4	6.4	-27	4.6	8.6	✓
150	-27°	1602	4	7.2	-27	22.8	8.9	✓
151	-27°	1605	4	7.4	-27	15.3	8.8	✓
152	-26°	1597	4	7.9	-26	45.6	7.7	✓
153	-26°	1591	4	6.8	-26	26.6	8.8	✓
154	-25°	1778	4	6.8	-25	57.2 54.4	9.0	✓
155	-26.5°	1786	4	8.4	-26.5	51.5	7.7	✓
156	-26.5°	1783	4	8.0	-26.5	36.8	8.5	✓
157	-25°	1799	4	9.9	-25	51.5	9.0	✓
158	-25°	1811	4	11.0	-25	46.0	8.7	✓
159	-27°	1630	4	11.3	-27	20.3	9.2	✓
160	-27°	1636	4	11.9	-27	54.8	8.8	✓
161	-27°	1642	4	12.4	-27	59.2	8.8	✓
162	-27°	1644	4	12.7	-27	31.6	9.2	✓

Cards made out

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Thursday. Oct. 31, 1912

B 41072 short disp.

No.	Int.	Class	Remark
163	2	Jf5	
164	1	fg	
165	1	fg5	
166	2	fg	
167	3	fg	
168	6	Jnb	
169	4	fg5	E.
170	2	Jf5	
171	3	Jf0	
172	6	Q5	
173	8	Jf2	
174	3	fg5	
Time: 12.03	175	4	fg5

cont 131, 102

163	-27°	1612	4	9.1	-27	25.1	8.9 J
164	-27°	1632	4	11.4	-27	4.6	9.1 J
165	-27°	1634	4	11.6	-27	4.6	8.8 J
166	-25°	1821	4	12.2	-25	37.8	9.0 V
167	-25°	1830	4	13.2	-25	49.0	8.4 J
168	-24°	2062 (~~079~~)	3	57.0 (58.2)	-24	48.6 (47.8)	(7.3) 8.9 J
169	-24°	2076	3	59.6	-24	45.6	8.5 J
170	-25°	1728	4	1.1	-25	1.0	8.5 J
171	-25°	1735	4	2.2	-25	4.3	8.4 J
172	-24°	2171	4	8.9	-24	31.4	7.6 J
173	-24°	2153	4	7.5	-24	8.1	6.8 V
174	-25°	1795	4	9.6	-25	19.4	8.4 J
175	-24°	2194	4	10.7	-24	50.1	8.1 J

Identified by J. B. M. Nov. 15, 1912.
Checked by AMC. Nov. 30, 1912
cards made out by M. C. W.
Cards checked by G. R. B.

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Saturday, Nov. 23, 1918.

Time: 11.14

R38385 short disp

No.	Int.	Class	Remarks
1	2	fp5	
2	4	f5	
3	3	fp0	
4	4	fp5	
5	3	fp	E.
6	2	f/p0	E.
7	2	f/f5	
8	2	f/p0	
9	2	f/2	
10	1	f/p0	
11	3	f/2	
12	4	Q2	
13	6	f/0	
14	3	fp0	
15	3	f2	
16	2	f5	
17	4	f/2	
18	5	fp0	
19	5	f2	
20	3	f0	
21	5	f/5	
22	2	fp5	
23	4	f5	
24	2	f/5	E.
25	3	fp	E.
26	2	fp0	
27	3	fp0	

1	−73°	33′	0″	25.1	−73	46.5	9.8
2	−72°	45′	0″	26.0	−72	51.4	9.2
3	−72°	51′	0″	30.5	−72	13.8	9.4
4	−71	16′	0″	21.4	−71	55.9	9.3
5	−70°	20′	0″	22.4	−70	54.8	9.2
6	−70°	13′	0″	19.9	−70	37.6	9.4
7	−71°	10′	0″	18.4	−71	8.2	9.4
8	−71°	8′	0″	16.2	−71	13.4	9.4
9	−71°	7′	0″	15.3	−71	18.0	9.4
10	−71°	11′	0″	18.8	−71	43.4	9.6
11	−71°	6′	0″	14.9	−71	52.0	9.3
12	−72°	27′	0″	12.9	−72	4.5	8.9
13	−72°	31′	0″	15.0	−72	40.4	8.8
14	−72°	25′	0″	12.2	−72	33.0	9.4
15	−72°	23′	0″	11.5	−72	36.6	9.8
16	−72°	19′	0″	9.7	−72	26.1	9.2
17	−72°	20′	0″	9.7	−72	7.3	8.9
18	−71°	3′	0″	10.1	−71	56.9	9.2
19	−71°	2′	0″	4.1	−71	31.9	8.8
20	Approx.	1875	0	4.0	−71	50.	~~12~~
21	−70°	3′	0″	2.0	−70	45.1	9.1
22	−70°	2′	0″	1.1	−70	51.8	9.3
23	−70°	1′	0″	0.1	−70	35.5	8.9
24	−70°	6′	0″	9.6	−70	26.8	9.3
25	−70°	10′	0″	11.7	−70	11.0	9.3
26	Approx.	1875	23	57.7	−71	13	
27	−71°	27′	84″	55.2	−71	1.1	9.4

cards made out

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Saturday, Nov. 23, 1912.

B 38385 short exp.

No.	Int.	Class	Remark
28	5	Jf2	
29	3	Jf2	
30	3	Iy0	
31	2	Iy0	The preceding of two.
32	4	Jf0	
33	6	F8	
34	2	Iy0	
35	2	Iy0	
36	2	F8	
37	4	Iy0	
38	4	Iy0	
39	6	Iy5	
40	1	F8	
41	2	A0	
42	5	A2	
43	2	Jf5	
44	4	F8	
45	1	Jf2	
46	2	Iy0	
47	5	A3	
48	2	Iy0	
49	2	Iy0	
50	5	F8	
51	3	F2	
52	1	Jf2	
53	3	F0	
54	6	Iy0	

28	−70°	3036	23	54.9	−70	49.8	9.0
29	−70°	3033	23	53.0	−70	44.7	9.3
30	−70°	3028	23	51.6	−70	37.5	9.3
31	−70°	3026	23	49.7	−70	56.8	9.4
32	−71°	2783	23	52.5	−71	38.8	9.3
33	−71°	2780	23	49.6	−71	33.8	9.0
34	−71°	2782	23	49.8	−71	44.4	9.3
35	Approx	1875	23	49.5	−71	48	
36	−71°	2781	23	49.7	−71	59.5	9.3
37	−72°	2793	23	53.3	−72	12.0	9.2
38	−71°	2785	23	57.6	−71	58.5	9.2
39	−72°	2789	23	58.2	−72	23.4	8.9
40	−72°	2801	23	59.2	−72	27.3	9.8
41	−72°	2803	23	59.5	−72	27.5	9.8
42	−72°	2	0	1.4	−72	30.4	9.2
43	−72°	5	0	3.9	−72	40.1	10.0
44	−72°	9	0	5.9	−72	40.6	9.4
45	−73°	10	0	7.2	−73	4.1	10.2
46	−72°	18	0	9.3	−72	52.6	9.8
47	−73°	16	0	14.1	−73	29.9	9.2
48	−73°	15	0	14.0	−73	38.3	9.8
49	−73°	6	0	5.6	−73	50.1	9.8
50	−74°	11	0	4.7	−74	12.1	9.2
51	−74°	10	0	4.3	−74	20.5	9.2
52	−73°	5	0	5.3	−73	18.0	9.8
53	−73°	1	0	2.9	−73	9.3	9.8
54	−73°	2347	23	58.2	−73	21.4	9.2

cards made out

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Saturday, Mar. 23, 1912.

B 38385 short disp.

No.	Int.	Class	Remark
55	2	F0	
56	5	F0	
57	2	F0	
58	3	F0	
59	5	G5	
60	2	F0	
61	3	F0	
62	4	G0	(near a brighter star)
63	7	F2	
64	1	F	
65	2	G0	
66	3	G5	
67	2	F0	
68	5	F0	
69	5	F2	
70	4	F2	
71	6	G0	
72	6	F0	
73	2	G	Partly superposed on 74
74	2	F2	
75	4	F0	
76	6	F0	
77	2	F2	
78	3	G0	
79	2	G0	
80	3	G0	
81	3	G0	

55 - 73°	2348	23	58.4 - 73	50.5	9.4	J
56 - 73°	2345	23	57.9 - 73	43.8	9.0	J
57 - 74°	2132	23	57.4 - 74	1.0	9.8	J
58 - 73°	2342	23	55.8 - 73	19.4	9.0	✓
59 - 73°	2341	23	55.0 - 73	18.1	8.9	J
60 - 73°	2338	23	54.2 - 73	10.2	10.0	J
61 - 73°	2336	23	53.2 - 73	2.2	9.8	J
62 - 72°	2794	23	54.0 - 72	53.9	9.4	J
63 - 73°	2339	23	54.2 - 73	1.0	8.4	✓
64 - 72°	2795	23	~~58.7~~ 56.4 - 72	~~9.53.3~~ 40.2	9.8	J
65 - 72°	2791	23	51.2 - 72	28.3	9.8	✓
66 - 72°	2790	23	50.0 - 72	29.9	9.8	J
67 - 72°	2789	23	49.6 - 72	41.5	9.8	J
68 - 73°	2788	23	46.8 - 72	52.8	8.9	J
69 - 73°	2320	23	43.4 - 73	23.3	8.4	J
70 - 73°	2322	23	44.8 - 73	58.1	9.4	✓
71 - 73°	2326	23	47.8 - 73	49.4	8.6	J
72 - 73°	2334	23	51.8 - 73	53.1	8.9	✓
73 - 74°	2118	23	48.2 - 74	36.3	9.8	J
74 - 74°	2112	23	48.0 - 74	32.3	9.8	J
75 - 74°	2111	23	47.8 - 74	38.9	9.2	✓
76 - 74°	2108	23	46.2 - 74	37.4	8.9	✓
77 - 74°	2104	23	44.3 - 74	23.9	9.5	✓
78 - 73°	2308	23	39.4 - 73	51.1	9.8	J
79 - 73°	2302	23	34.8 - 73	21.4	9.8	J
80 - 73°	2301	23	34.2 - 73	8.0	9.8	✓
81 - 72°	2776	23	36.1 - 72	47.1	9.8	✓

Cards made out

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Saturday, Nov. 23, 1912.

B38385 clear & calm.

No.	Int.	Class	Remark
82	3	F5	
83	3	K5	
84	2	K2	
85	1v	K0	
86	2	A0	
87	3	F8	
88	4	G5	
89	2	K0	
90	3	F0	
91	2	A0	
92	3	G5	
93	4	F5	
94	4	G5	
95	7	F0	
96	4	K5	
97	4	K0	
98	3	G5	
99	8	K0	
100	10+	F5	
101	2	K5	
102	2	F5	
103	2	A3	
104	8	K0	
105	5	F5	
106	2	G5	
107	1	G	
108	3	K2	

82	-72°	2781	23	39.5	-72	40.3	9.8	✓
83	-71°	2778	23	44.8 46.3	-71	33.8 55.2	9.4 9.2	✓
84	-71°	2776	23	44.2	-71	49.2	9.4	✓
85	Approx.	1875	23	23.0 42.6	-71	57.		✓ a Faint star of eighth following or south superposed
86	-72°	2786	23	41.8	-72	0.6	9.8	✓
87	-72°	2784	23	40.9	-72	2.4	9.2	✓
88	-71°	2772	23	38.2	-71	52.5	9.2	✓
89	-72°	2778	23	37.3	-72	17.0	9.8	✓
90	-72°	2784	23	34.0	-72	40.9	9.4	✓
91	-73°	2298	23	31.8	-73	6.1	9.8	✓
92	-73°	2296	23	30.9	-73	18.9	9.2	✓
93	-73°	2293	23	28.4	-73	38.4	9.2	✓
94	-73°	2292	23	27.5	-73	51.8	9.4	✓
95	-72°	2766	23	26.3	-72	47.2	8.6	✓
96	-73°	2289	23	21.6	-73	21.0	9.3	✓
97	-72°	2762	23	22.2	-72	21.0	9.0	✓
98	-72°	2761	23	18.6	-72	16.9	9.2	✓
99	-72°	2760	23	17.0	-72	18.8	8.4	✓
100	-72°	2759	23	16.4	-72	51.0	7.2	✓
101	-73°	2285	23	15.8	-73	9.0	9.7	✓
102	-72°	2758	23	15.1	-72	49.9	9.5	✓
103	-72°	2758	23	16.0	-72	34.1	9.5	✓
104	-72°	2758	23	13.6	-72	15.5	8.6	✓
105	-73°	2284	23	11.6	-73	4.7	8.9	✓
106	-73°	2283	23	9.4	-73	20.3	9.6	✓
107	-72°	2758	23	10.3	-72	44.9	9.5	✓
108	-72°	2758	23	8.3	-72	49.1	9.5	✓
					Cards	made	out	

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Saturday, Nov. 23, 1912.

B 38385 short disp.

No.	Int.	Class	Remark
109	2	K0	
110	5	G5	
111	8	F5	
112	6	K0	
113	4	K0	
114	2	G5	
115	4	A3	
116	7	G5	
117	2	K0	
118	2	F8	
119	2	K5	
120	2	G0	
121	1	F8	
122	2	F6	
123	4	F5	
124	5	F7	
125	2	K5	
126	5	F8	
127	5	A0	
128	3	K2	
129	2	G	
130	7	K0	
131	4	F2	
132	8	F8	
133	3	G5	
134	5	A2	
135			

Jupiter 11.4'

Cent 138, 4

109	-72°	2784	23	7.2	-72	45.7	9.5
110	-73°	2280	23	3.7	-73	6.1	9.0
111	-73°	2279	23	2.9	-73	12.1	8.1
112	-73°	2281	23	5.7	-73	49.8	9.1
113	-73°	2282	23	6.1	-73	59.6	9.3
114	-74°	2061	23	8.9	-74	17.0	9.5
115	-74°	2063	23	12.3	-74	8.4	9.3
116	-74°	2058	23	7.4	-74	33.3	8.6
117	-74°	2057	23	6.6	-74	51.9	9.3
118	-74°	2060	23	8.3	-74	49.3	9.3
119	-71°	2775	23	43.1	-71	3.3	9.4
120	-71°	2778	23	46.3	-71	5.2	9.2
121	-70°	3023	23	46.3	-70	45.4	9.4
122	-70°	3024	23	46.4	-70	31.5	9.3
123	-70°	3022	23	43.8	-70	31.6	9.0
124	-70°	3021	23	43.4	-70	39.5	8.8
125	-70°	3019	23	41.5	-70	33.7	9.3
126	-70°	3020	23	41.7	-70	14.1	9.0
127	-70°	3017	23	38.7	-70	22.7	8.8
128	-70°	3016	23	36.0	-70	44.2	9.3
129	-70°	3014	23	33.3	-70	38.8	9.8
130	-70°	3013	23	30.0	-70	43.8	8.6
131	-71°	2766	23	28.6	-71	11.0	9.0
132	-70°	3011	23	27.4	-70	45.4	8.0
133	-70°	3012	23	28.7	-70	21.3	9.2
134	-74	2066	23	16.8	-74	8.5	9.5

Identified by Anne, Nov. 26, 1912

Checked by D.B.W. ~~Dec. 2~~ Jan. 1, 1913

Cards checked by E.P.R. cards made out by M. C. W.

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Gateway, Nov. 23 1912.

Time: 4.57

13
+3836.8 clock diff.

No.	Dist.	Class	Remark
1	3	Jf2	
2	5	Jf5	
3	3	fg0	
4	5	A0	
5	4	Jf5	
6	6	Jf0	
7	1	Jf	
8	1	fg0	
9	1	fg	Partly superposed on 8.
10	2	fg0	
11	6	Jf5	
12	2	Jf2	
13	2	Jf5	
14	3	fg5	
15	9	Jf0	
16	2	Jf0	Partly superposed on 15.
17	3	fg5	
18	2	Jf2	
19	1	fg5	
20	4	Jf5	
21	1	fg	
22	1	fg0	
23	6	fg5	
24	6	Jf0	
25	9	Jf0	
26	2	fg0	
27	2	A2	

1	−69°	3334	23	38.6	−69	18.8	9.5	✓
2	−69°	3332	23	36.8	−69	7.4	9.0	✓
3	−69°	3331	23	36.1	−69	7.3	9.9	✓
4	−68°	3579	23	36.7	−68	33.4	8.6	✓
5	−68°	3578	23	36.4	−68	20.2	9.4	✓
6	−68°	3576	23	31.9	−68	36.2	9.0	✓
7	−69°	3328	23	31.3	−69	0.8	9.9	✓
8	−68°	3329 (575)	23	31.1	−68	45.3	9.9	✓
9	−68°	3574	23	30.9	−68	42.2	9.9	✓
10	Approx.	1875	23	29.0	−68	X (b)		✓
11	−67°	3971	23	30.8	−67	44.2	8.6	✓
12	Approx	1875	23	29.8 (1)	−67	45		✓
13	−67°	3969	23	29.3	−67	27.9	9.1	✓
14	−67°	3970	23	29.6	−67	7.2	9.1	✓
15	−66°	3787	23	32.6	−66	56.8	8.0	✓
16	−66°	3788	23	32.8	−66	59.1	9.4	✓
17	−67°	3978	23	35.9	−67	17.6	9.0	✓
18	−67°	3979	23	38.0	−67	22.5	9.6	✓
19	−67°	3976	23	35.4	−67	34.7	9.4	✓
20	−68°	3573	23	27.1	−68	1.8	9.6	✓
21	Approx.	1875	23	26.4	−67	54		✓
22	Approx.	1875	23	25.9	−67	48		✓
23	−67°	3967	23	21.9	−67	54.3	8.6	✓
24	−67°	3966	23	20.6	−67	35.8	8.8	✓
25	−67°	3964	23	19.7	−67	16.0	7.8	✓
26	−68°	3572	23	24.5	−68	36.6	9.6	✓
27	−69°	3323	23	20.9	−69	7.1	9.5	✓

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Saturday, Nov. 23, 1912.

13
7 38 368 slant diffs.

No.	Int.	Class	Remark
28	4	Ly5	
29	6	F8	
30	4	F0	
31	3	F0	
32	4	F2	
33	3	Ly5	
34	2	F0	
35	10	Lyp	
36	4	Lyp	
37	3	F8	
38	3	F2	
39	3	F5	
40	1	Ly5	
41	2	F5	The preceding of two.
42	1	F2	
43	1	F0	
44	8	F0	
45	4	Ly5	
46	7	F0	
47	2	F5	
48	4	F0	
49	6	Lyp	
50	6	Fuc	
51	8	Ly5	
52	8	F0	
53	4	Ly5	Focus poor.
54	8	F0	

28	−68°	3571	23	19.2	−68	54.0	9.2	✓
29	−68°	3570	23	18.8	−68	43.1	8.8	✓
30	−69°	3321	23	17.6	−69	13.5	9.4	✓
31	−69°	3320	23	16.8	−69	4.6	9.6	✓
32	−69°	3319	23	16.8	−69	26.5	9.0	✓
33	−69°	3322	23	20.1	−69	34.5	9.5	✓
34	Approx	1875	23	18.9 (17.1)	−69	39		✓
35	−69°	3325	23	23.5	−69	45.7	6.8	✓
36	−70°	3007	23	24.2	−70	2.0	9.4	✓
37	−69°	3326	23	26.4	−69	56.5	9.2	✓
38	−70°	3008 (9)	23	26.2	−70	20.1	9.2	✓
39	−69°	3327	23	30.1	−69	57.9	9.2	✓
40	−70°	3008	23	25.2	−70	35.7	9.9	✓
41	−70°	3005	23	22.8	−70	26.7	9.9	✓
42	−70°	3006	23	23.6	−70	55.7	9.9	✓
43	−71°	2764	23	21.2	−71	1.7	9.9	✓
44	−71°	2763	23	19.5	−71	4.3	8.2	✓
45	−71°	2762	23	19.0	−71	7.5	9.0	✓
46	−71°	2761	23	17.6	−71	35.7	8.1	✓
47	−71°	2760	23	16.5	−71	26.7	9.8	✓
48	−71°	2758	23	11.5	−71	41.1	8.9	✓
49	−71°	2757	23	11.5	−71	0.3	8.5	✓
50	−70°	3001 2756	23	8.6 7.4	−70	56.0 30.5	6 8.2	✓
51	−71°	2758 (6)	23	7.4 4.5	−71	30.5 32.4	8.2 9.2	✓
52	−71°	2754	23	5.8	−71	33.5	8.4	✓
53	−72°	2752	23	6.2	−72	2.0	9.0	✓
54	−70°	3000	23	8.2	−70	35.1	8.0	✓

Cards made out

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Saturday Nov. 23, 1912.

#B38368 short disp.

No.	Int.	Class	Remark
55	3	K0	
56	10	G0	
57	7	B9	
58	7	G0	
59	5	K0	
60	3	G0	
61	6	G5	
62	6	K0	
63	3	G0	
64	2	G0	
65	4	K0	
66	5	K0	
67	2	F8	
68	2	G5	
69	5	K5	
70	1	G5	
71	5	K0	
72	2	G0	
73	4	F8	
74	9	K0	
75	8	A2	
76	10+	K0	
77	3	G	Nearly all superposed on 78.
78	4	K0	
79	4	G0	
80	6	G0	
81	7	A3	

55	-71°	2755	23	6.2	-71	1.1	9.0	✓
56	-70°	2999	23	6.0	-70	44.3	7.2	✓
57	-70°	2996	23	4.0	-70	47.4	8.1	✓
58	-70°	2993	22	59.6	-70	42.9	8.4	✓
59	-70°	2992	23	58.8	-70	21.7	8.6	✓
60	-69°	3303	22	58.6	-69	56.2	9.2	✓
61	-69°	3308	23	2.8	-69	42.5	8.5	✓
62	-69°	3306	23	2.2	-69	31.4	8.6	✓
63	-69°	3310	23	4.9	-69	36.0	9.2	✓
64	-69°	3311	23	7.4	-69	50.3	9.4	✓
65	-70°	3002	23	9.9	-70	2.7	9.2	✓
66	-69°	3317	23	13.0	-69	57.2	8.9	✓
67	-69°	3318	23	15.5	-69	54.7	9.4	✓
68	-70°	3003	23	14.0	-70	23.1	9.5	✓
69	-69°	3316	23	11.9	-69	21.7	9.0	✓
70	-69°	3315	23	11.0	-69	9.4	9.8	✓
71	-69°	3314	23	9.9	-69	25.8	9.2	✓
72	-69°	3313	23	9.2	-69	31.0	9.4	✓
73	-69°	3312	23	8.1	-69	11.0	9.0	✓
74	-68°	3563	23	5.9	-68	58.2	8.4	✓
75	-68°	3568	23	12.4	-68	0.6	7.9	✓
76	-68°	3567	23	10.6	-68	9.2	7.2	✓
77	-67°	3959	23	9.4	-67	36.3	9.0	✓
78	-67°	3960	23	9.5	-67	35.3	8.8	✓
79	-67°	3958	23	9.3	-67	31.3	8.8	✓
80	-67°	3953	23	7.8	-67	34.2	8.4	✓
81	-67°	3956	23	8.1	-67	48.1	5.6	✓

Cards made out

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Saturday, Nov. 23, 1912.

B
38368 short disp.

No.	Int.	Class	Remark
82	7	K0	
83	3	K5	
84	2	G0	
85	1	K	
86	10+	F	
87	5	K5	
88	10	G5	
89	8	A3	
90	2	K0	Nearly all superposed on 89.
91	5	K0	
92	3	K5	
93	5	K0	
94	4	F5	
95	4	G0	
96	3	A3	
97	3	G5	
98	4	K0	
99	10+	F5	Burned out.
100	4	A0	
101	2	K0	
102	2	K0	
103	1	G0	
104	6	K2	
105	3	K2	
106	2	G0	
107	4	F8	
108	1	K0	

Time 12.13 Nov. 25
Time 11.03

82	-67°	3954	23	7.9	-67	51.1	8.6
83	-68°	3566	23	7.7	-68	3.6	9.8
84	-68°	3565	23	7.7	-68	12.4	9.5
85	-68°	3564	23	6.4	-68	26.0	9.9
86	-68°	3560	23	1.7	-68	33.1	6.4
87	-68°	3561	23	1.8	-68	24.1	8.8
88	-67°	3949	23	2.2	-67	32.1	7.5
89	-67°	3948	23	1.7	-67	9.0	7.8
90	-67°	3947	23	1.6	-67	11.5	9.0
91	-67°	3944	22	59.7	-67	19.6	8.8
92	-66°	3745	23	1.0	-66	53.3	8.8
93	-67°	3941	22	56.8	-67	48.1	8.9
94	-68°	3556	22	57.0	-68	7.3	8.9
95	-68°	3555	22	56.6	-68	34.5	8.9
96	-68°	3557	22	58.0	-68	43.0	9.0
97	-69°	3300	22	56.4	-69	3.1	9.0
98	-69°	3299	22	55.8	-69	1.2	9.0
99	-69°	3301	22	56.6	-69	29.6	5.8
100	-69°	3295	22	55.3	-69	43.2	8.9
101	-70°	2986	22	54.1	-70	13.8	9.3
102	-70°	2984	22	53.7	-70	21.1	9.0
103	-70°	2987	22	54.1	-70	27.1	9.2
104	-71°	2738	22	53.6	-71	17.8	8.5
105	-71°	2747	22	57.8	-71	9.7	9.2
106	-71°	2748	22	59.2	-71	25.5	9.2
107	-71°	2749	23	1.6	-71	22.9	8.9
108	-71°	2751	23	2.4	-71	31.1	9.8

Can do made out

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Monday, Nov. 25, 1912.

B38369 short dists.

No	Int.	Class	Remark
109	1	Jf	
110	1	Jf	
111	3	Jf8	
112	7	Jf0	
113	5	Ly5	
114	5	Ly5	
115	6	A2	
116	3	Ly0	
117	8	Jf2	
118	8	A0	
119	3	Ly0	
120	3	Jf0	
121	4	Jf5	
123	4	Jf0	
123	3	A2	
124	1	Jf0	
125	1	Ly5	
126	2	Jf5	
127	3	Jf5	
128	5	Ly5	
129	2	Jf0	
130	5	A0	
131	4	Jf0	
132	3	Ly0	
133	6	A2	
134	5	Jf0	
135	2	Jf0	

	Appar. 1875		2		21		
109	~~-71° 2752~~	23	4.2	-71	33.+	9.9	✓
110	-71° 2752	23	4.0	-71	33.1	9.9	✓
111	-71° 2753	23	4.5	-71	32.4	9.0	✓
112	-71° 2735	22	49.1	-71	16.9	8.4	✓
113	-70° 2982	22	49.3	-70	10.1	8.5	✓
114	-70° 2981	22	49.3	-70	7.1	8.5	✓
115	-70° 2975	22	47.5	-70	18.4	8.1	✓
116	-70° 2976	22	48.1	-70	7.2	8.8	✓
117	-69° 3285	22	46.4	-69	46.2	7.9	✓
118	-69° 3289	22	47.9	-69	26.9	7.8	✓
119	-69° 3283	22	46.2	-69	26.0	9.2	✓
120	-69° 3282	22	45.7	-69	18.6	8.9	✓
121	-69° 3286	22	46.5	-69	5.0	8.8	✓
122	-68° 3548	22	50.8	-68	52.6	9.0	✓
123	-68° 3546	22	50.7	-68	43.1	8.9	✓
124	-69° 3292	22	51.5	-69	5.4	9.6	✓
125	-68° 3551	22	51.7	-68	54.5	9.7	✓
126	-69° 3294	22	53.8	-69	10.0	9.2	✓
127	-68° 3553	22	52.2	-68	10.9	9.0	✓
128	-68° 3547	22	50.8	-68	12.7	8.4	✓
129	-68° 3545	22	50.6	-68	4.0	9.4	✓
130	-67° 3937	22	53.6	-67	32.9	8.4	✓
131	-67° 3936	22	51.8	-67	30.0	8.6	✓
132	-67° 3934	22	51.6	-67	5.7	8.6	✓
133	-67° 3932	22	49.8	-67	0.3	8.5	✓
134	-66° 3736	22	53.9	-66	41.0	8.5	✓
135	-67° 3943	22	58.7	-67	7.0	9.0	✓

cards made out

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B 38 368 short exp.

No.	Int.	Class	Remark
136	1	g	
137	3	K5	
138	7	A5	
139	2	K0	
140	4	F0	
141	2	A3	
142	3	F5	
143	1	G	
144	1	K0	
145	3	K0	
146	3	g5	
147	1		
148	4	K0	
149	3	G0	
150	3	F5	
151	2	F5	
152	6	F0	
153	7	F0	
154	6	K0	
155	2	g5	
156	3	G0	
157	7	K0	
158	1	K	
159	8	F0	
160	7	K0	
Time 11.15	161	b	A2
	162		

Cards 135, 2

136	−67°	3942	22	58.3	−67	5.3	9.2	✓
137	−66°	3797	23	42.0	−66	5.4	9.1	✓
138	−65°	4173	28	40.8	−65	56.2	7.5	✓
139	−66°	3792	23	37.0	−66	11.0	8.8	✓
140	−66°	3791	23	36.7	−66	7.6	8.2	✓
141	−66°	3786	23	30.9	−66	1.5	9.0	✓
142	−66°	3783	23	28.2	−66	31.1	8.8	✓
143	−66°	3780	23	24.2	−66	58.1	9.4	✓
144	−66°	3778	23	22.3	−66	36.4	9.4	✓
145	−66°	3776	23	21.3	−66	46.4	8.8	✓
146	−66°	3768	23	15.4	−66	49.8	9.0	✓
147	−67°	3962	23	13.9	−67	8.0	9.2	✓
148	−66°	3766	23	12.4	−66	49.0	9.0	✓
149	−66°	3767	23	13.0	−66	34.9	9.2	✓
150	−66°	3763	23	9.3	−66	53.7	9.1	✓
151	−67°	3952	23	7.7	−67	4.9	9.2	✓
152	−66°	3757	23	6.9	−66	53.8	8.2	✓
153	−66°	3762	23	9.2	−66	24.0	8.8	✓
154	−66°	3758	23	7.1	−66	15.7	8.8	6 ✓
155	−66°	3753 4	23	5.0 6.1	−66	26.6 20.2	9.8	✓
156	−65°	4118	28 3	8.1	−65	56.4	8.8	✓
157	−65°	4121	23	11.1	−65	59.1	8.4	✓
158	−65°	4128	23	13.6	−65	53.4	9.2	✓
159	−65°	4133	23	14.9	−65	56.9	7.8	✓
160	−65°	4135	23	15.7	−65	34.5	8.2	✓
161	−65°	4125	23	13.0	−65	23.1	8.4	✓

Identified by J. C. M. Nov. 27. 1912.

Checked by AMC. Nov. 29. 1912 cards

Cards checked by E.W.B. Cards out by M. C.W.

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Saturday, Apr. 24, 1915 (cont. from p. 114)

B 4108 Shaw

	No	Ext	Class	Remark
v	211	2	Ko	
v	212	3	Ko	
v	213	3	ko	
v	214	3	~~Ko~~	
v	215	1	~~Ko~~	
v	216	2	ko	
v	217	3	~~Ko~~	
v	218	1	K	Partly sup. on 219
v	219	1	Ko	
v	220	2	~~Ko~~	
v	221	3	Ko	
v	222	2	~~ko~~	
v	223	2	Ko	
v	224	1	Ko	
v	225	1	Ko	
v	226	1	ko	
v	227	2	ko	
v	228	1	~~Ko~~	
v	229	6	Ko	
10:19 v	230	2	ko	

(See ~~next~~ page 218)

211 -20°	1098	5	22.4 -20	47.6	9.3 ✓
212 -20°	1097	5	22.1 -20	1.0	8.8 ✓
213 -19°	1185	5	22.0 -19	38.6	9.0 ✓
214 -20°	1087	5	20.7 -20	1.3	9.1 ✓
215 -20°	1095	5	21.9 -20	31.4	8.8 ✓
216 -20°	1081	5	18.7 -20	46.8	8.8 ✓
217 -20°	1078	5	18.1 -20	43.7	9.1 ✓
218 -20°	1079	5	18.5 -20	27.0	8.9 ✓
219 -20°	1080	5	18.5 -20	23.4	9.2 ✓
220 -20°	1075	5	17.6 -20	58.2	9.1 ✓
221 -21°	1155	5	17.2 -21	21.2	8.9 ✓
222 -21°	1157	5	17.4 -21	13.8	9.2 ✓
223 -21°	1159	5	18.1 -21	15.6	9.0 ✓
224 -21°	1167	5	19.6 -21	24.2	9.2 ✓
225 -21°	1165	5	19.5 -21	24.1	9.1 ✓
226 -21°	1171	5	20.8 -21	26.3	9.4 ✓
227 -21°	1177	5	22.4 -21	48.9	9.0 ✓
228 -21°	1131	5	12.7 -21	33.2	9.1 ✓
229 -22°	1060	5	10.7 -22	25.8	8.0 ✓
230 -22°	1057	5	9.6 -22	12.3	9.0 ✓

Ident. in Book by M.A.H. April 24, 1915

Ident. on cards by AMC. April 24, 1915

Identification compared by C.H.B. April 26, 1915

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Monday, June 19, 1916

B 1088 cont. from preceding

No	Mr	Class	Remark
231	3	A3	
232	4	F10	
233	6	F15	
234	3	A0	
235	2	F8	

✓	231	−19°	1224	5	30.7	−19	57	8.5	41 on B 18522
✓	232	−20°	1139	5	32.1	−20	16	8.5	43 " "
✓	233	−19°	1234	5	34.0	−19	18	8.0	47 " "
✓	234	−18°	1166	5	36.5	−18	26	8.3	49 " "
✓	235	−21	1257	5	40.2	−21	48	9.0	× a B 17385

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